

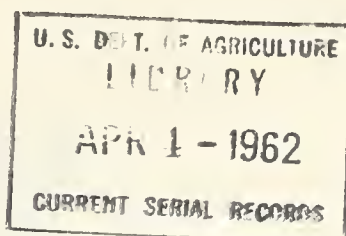
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CROPS RESEARCH

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Results of 1960

REGIONAL COTTON VARIETY TESTS

by Cooperating Agricultural Experiment Stations

Alabama	Missouri
Arizona	New Mexico
Arkansas	North Carolina
California	Oklahoma
Georgia	South Carolina
Louisiana	Tennessee
Mississippi	Texas

Agricultural Research Service
U. S. DEPARTMENT OF AGRICULTURE



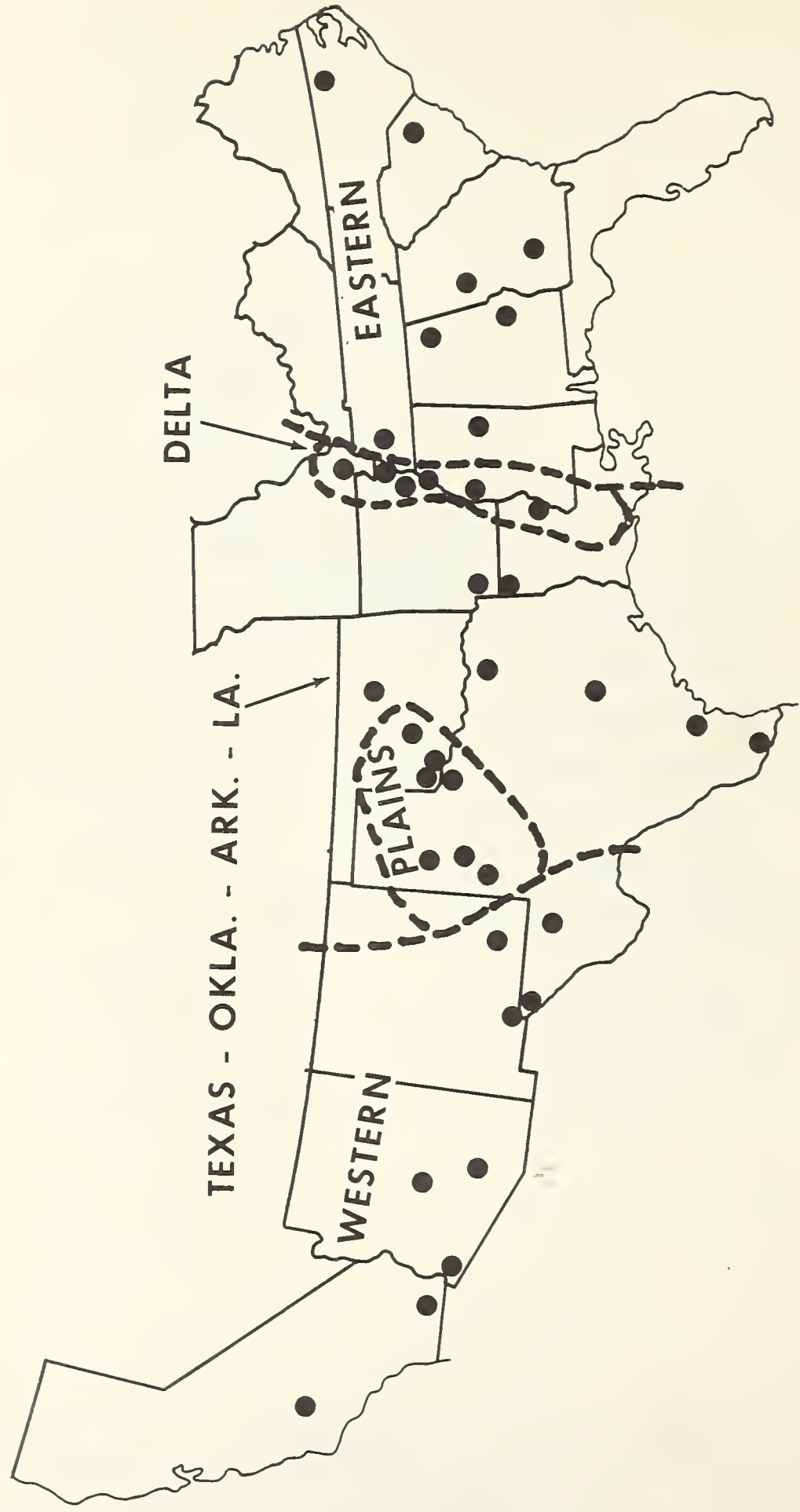
Growth Through Agricultural Progress

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Prepared in
Cotton and Cordage Fibers Research Branch
Crops Research Division
Agricultural Research Service
U. S. Department of Agriculture

REGIONAL COTTON VARIETY TESTING PROGRAMS



RESULTS OF 1960 REGIONAL COTTON VARIETY TESTS ^{1/}

by Cooperating Agricultural Experiment Stations:

Alabama	Missouri
Arizona	New Mexico
Arkansas	North Carolina
California	Oklahoma
Georgia	South Carolina
Louisiana	Tennessee
Mississippi	Texas

Leaders in the cotton industry and the public agencies repeatedly have discussed the need for a coordinated cotton variety testing program that would provide valid comparisons of varietal performance by bringing together the results of selected state tests in a single annual publication. To determine the advisability of such a program, the Joint Cotton Breeding Policy Committee, at a meeting in Houston, Texas, in December 1958, formed a sub-committee to make appropriate recommendations. The sub-committee in turn, appointed a National Variety Testing Committee. The names of the members of these committees are listed under Committee Members. The National Cotton Variety Testing Committee met in Dallas, Texas, in September 1959, and prepared a proposal for the cotton variety testing program. The essential features of this proposal were adopted and put into operation during the 1960 growing season.

REGIONS AND LOCATIONS

On the basis of past experience and knowledge of the soils, climate, and production practices of the different areas, five regional cotton variety tests were organized.

The regions and the stations participating during the 1960 season are listed below, and the map shows the geographic location of the tests.

EASTERN REGIONAL COTTON VARIETY TEST

Upper Coastal Plain Experiment Station,	Rocky Mount, N. C.
Pee Dee Experiment Station,	Florence, S. C.
Coastal Plain Experiment Station,	Tifton, Georgia
Georgia Agr'l. Experiment Station,	Experiment, Ga.
Alabama Agr'l. Experiment Station,	Auburn, Ala.
Sand Mountain Substation,	Crossville, Ala.
Mississippi Agr'l. Experiment Station,	State College, Miss.
West Tennessee Experiment Station,	Jackson, Tenn.

^{1/} Agronomic data and fiber samples provided by Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee and Texas. Fiber and spinning data determined by U. S. Cotton Fiber Laboratory, Knoxville, Tenn. Data analyzed and prepared for publication by C. F. Lewis and T. Kerr, Crops Research Division, Agricultural Research Service, U. S. Department of Agriculture, Beltsville, Md., with assistance of Biometrical Services. The assistance of E. L. Cox, G. D. Bearden, L. I. Benedict, and Mrs. A. E. Henne is acknowledged.

DELTA REGIONAL COTTON VARIETY TEST

Delta Branch Experiment Station,	Stoneville, Miss.
Delta Branch Experiment Station,	Tunica, Miss.
Northeast Louisiana Experiment Station,	St. Joseph, La.
Arkansas-Delta Substation,	Clarkedale, Ark.
Southeast Missouri Research Center,	Sikeston, Mo.
West Tennessee Experiment Station,	
Lauderdale County,	Ft. Pillow, Tenn.

TEXAS-OKLAHOMA-ARKANSAS-LOUISIANA REGIONAL COTTON VARIETY TEST

Oklahoma Agr'l. Experiment Station,	Stillwater, Okla.
U. S. Cotton Field Station,	Greenville, Tex.
Texas Agr'l. Experiment Station,	College Station, Tex.
Texas Agr'l. Experiment Station,	
Substation No. 1,	Beeville, Tex.
Texas Agr'l. Experiment Station,	
Substation No. 15,	Weslaco, Tex.
Southwest Branch Experiment Station,	Hope, Ark.
Red River Valley Experiment Station,	Bossier City, La.

PLAINS REGIONAL COTTON VARIETY TEST

Texas Agr'l. Experiment Station,	
Substation No. 8,	Lubbock, Tex.
Texas Agr'l. Experiment Station,	
Substation No. 8,	Brownfield, Tex.
High Plains Research Foundation,	Halfway, Tex.
Texas Agr'l. Experiment Station,	
Substation No. 12,	Chillicothe, Tex.
Irrigation Experiment Station,	Altus, Okla.
Sandy Land Research Station,	Mangum, Okla.
Cotton Research Station,	Chickasha, Okla.

WESTERN REGIONAL COTTON VARIETY TEST

U. S. Cotton Field Station,	Shafter, Calif.
Southwestern Irrigation Field Station,	Brawley, Calif.
University of Arizona,	
Yuma Valley Station,	Yuma, Ariz.
Cotton Research Center,	Tempe, Ariz.
Marana Experimental Farm,	Marana, Ariz.
New Mexico Agr'l. Experiment Station,	University Park, N. M.
Southeastern Substation,	Artesia, N. M.
Texas Agr'l. Experiment Station,	
Substation No. 17,	Ysleta, Tex.
Texas Agr'l. Experiment Station,	
Substation No. 9, Soils and Crops Unit,	Pecos, Tex.

The Western states have had for a period of years a cotton variety testing program on a regional basis. This program was conducted as usual in 1960; in addition, a new series of tests containing the 4 national standard varieties was grown. Results from both tests are given in this report. To avoid

confusion, the test with the national standards is referred to as the Western Regional Cotton Variety Test and the old test is referred to as the Western Cotton Variety Test.

DESIGN AND ANALYSIS

The guiding principal behind this testing program was to make it so flexible that tests already being conducted in the states could be incorporated into the regional plan with slight or no modification. For this reason details of design, plot size, cultural practices, number of entries, and sampling methods were left to the discretion of the participating local stations. While these details were not rigidly standardized, all tests were conducted by experienced personnel on experiment stations and sound experimental designs and procedures were employed.

Acala 4-42, Lankart 57, Deltapine 15, and Coker 100A were selected as national standards and were planted at all locations. These varieties were chosen to represent Western, Plains, Delta, and Eastern types of cotton, respectively, and to provide checks for inter-regional comparisons. Within each region the participating stations selected a group of regional standard varieties that were common to all tests within a region. Each station could enter optional varieties of local interest, but data from the few optional entries that were tested were not included in this report.

The operations and measurements required for the development of data on yield and such other agronomic characters as boll size and lint % were performed by personnel at the cooperating stations. Fiber samples were sent to the U. S. Cotton Fiber Laboratory, Knoxville, Tennessee, where fiber tests were made. All data were assembled in the Cotton and Cordage Fibers Research Branch, Crops Research Division, ARS, U. S. Department of Agriculture, Beltsville, Maryland, and analyzed with electronic computers by Biometrical Services.

The number of replications for yield data varied from 3 to 8, but a great majority of tests had 6 replications. None was originally designed with less than 4 replications. Boll, seed, fiber and spinning data were based on two replications from each variety at all stations. A randomized block analysis was employed although some tests were planted in lattice designs. Separation of means was by Duncan's Multiple Range method at the .05 level of probability.

In 1960, spinning tests were conducted on the Delta and Western Tests. This provided drawing sliver and spinning performance in addition to the ginned cotton measurements common to all tests.

EXPLANATION OF TABLE HEADINGS AND SYMBOLS

Yield	The mean production of the plots harvested, expressed in pounds of lint per acre.
Boll Size	(a) Average weight, in grams, per boll of seed cotton. (b) The number of bolls of seed cotton required to weigh 1 pound.
Lint %	The weight of lint ginned from a sample of seed cotton expressed as a percentage of the

	weight of seed cotton.
Seed Index	The weight of 100 seed, in grams.
Ginned Lint (Length)	Length measured on the Servo Fibrograph from samples composed of random pinches taken directly out of the ginned lint.
U.H.M. (Upper Half Mean)	The length in inches of the half of the fibers by weight which contains the longer fibers. Values for U.H.M. approximates classer's staple.
Mean	The average length in inches of all fibers longer than 1/4 inch.
Uniformity	The ratio of means length to U.H.M. expressed in percentage.
Micronaire	The fineness of the sample taken from the ginned lint measured by the Micronaire and expressed in standard (curvilinear scale) Micronaire units.
T ₀	The fiber strength of a bundle of fibers measured on the Stelometer with the two jaws holding the fiber bundle tightly appressed. Strength is expressed in terms of grams per grex.
T ₁	The fiber strength of a bundle of fibers measured on the Stelometer with two jaws holding the fiber bundle separated by an 1/8 inch spacer. Strength is expressed in terms of grams per grex.
E ₁	The percentage elongation at break of the center 1/8 inch of the fiber bundle measured for T ₁ strength on the Stelometer.
Drawing Sliver (Length)	Length measured on the Servo Fibrograph from samples taken from the second drawing sliver. Definitions of U.H.M., Mean length, and Uniformity are the same as given under "Ginned Lint (Length)".
Arealometer Measurements	
A	"A" is a measure of the external surface area of the fibers of a given volume of fibrous material expressed in terms of square millimeters per cubic millimeter of fibrous material.
D	Difference between the values of the specific area determined at "High Pressure (A _H) and the value of specific area determined at standard pressure (the "A" measured above). "D" is presumably a

	measure of the flatness of the fiber ribbon; i.e., the higher the "D" value, the more ribbonlike are the fibers.
22's	The yarn skein strength of 22's (actually 27 tex) as determined from a small scale (50 gram) test.
C.V.	Coefficient of variability.
N.S.	Nonsignificant.
Lower case letters following means	Means followed by the same letter cannot be considered significantly different at the .05 level of probability.

TEST RESULTS

The test results are presented in a series of tables designed to furnish reliable information on the performance of cotton varieties in experimental tests across the United States in 1960. No interpretation of these data, other than the indication of significant difference among means based on the analysis of variance, is presented in this publication.

In the summary of data for individual stations, the varieties are arranged in descending order of yield of lint per acre. Analysis of variance of yield was calculated for each individual station.

In the regional summaries, each character is ranked separately in descending order and the significant difference among means are indicated. For easy examination, the mean performance of a variety for all measurements were retabulated into a single table for each region.

The mean performance of the stations, within each region, also are presented.

ACKNOWLEDGEMENTS

The success of the Regional Cotton Variety Tests this year was due to the interest and diligence of many workers who conducted the tests, processed the fiber samples, tabulated the information, analyzed the data, and prepared this publication. Going from East to West the following workers have been primarily responsible for conducting the tests and furnishing the data:

J. C. Williams and J. A. Lee, Raleigh, N. C.
J. P. Pitner, D. C. Harrell, and F. M. Harrell, Florence, S. C.
S. A. Parham, Tifton, Ga., and B. S. Hawkins, Experiment, Ga.
A. L. Smith, L. J. Chapman, Auburn, Ala., and S. E. Gissendanner, Crossville, Ala.
J. B. Dick, Stoneville, Miss., and G. D. Green, State College, Miss.
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W. P. Sappenfield, Sikeston, Mo.
Charles Hughes, Fayetteville, Ark., and Wallace Williams, Clarkedale, Ark.
F. W. Self, Baton Rouge, La., J. A. Hendrix, St. Joseph, La., and J. Y. Oakes, Bossier City, La.

J. C. Murray and J. W. Simmons, Stillwater, Okla., and E. S. Oswalt, Chickasha, Okla.
G. A. Niles and T. R. Richmond, College Station, Tex., D. D. Porter, Greenville, Tex., E. M. Neal, J. R. Gipson, R. E. Nolan, Beeville, Tex., J. L. Hubbard and W. R. Cowley, Weslaco, Tex., L. L. Ray, Lubbock, Tex., W. P. Hatchett, Spur, Tex., J. Roy Quinby, Chillicothe, Tex., E. Collister, Halfway, Tex., E. L. Thaxton, Jr., Pecos, Tex., and P. J. Lyerly, El Paso, Tex.
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P. H. Van Schaik, Brawley, Calif., J. H. Turner and M. Lehman, Shafter, Calif.

The interest and cooperation of the commercial cottonseed firms of the United States is also acknowledged. For the most part seed for planting the regional entries were contributed by the commercial firms. Seed of the four varieties used as national standards were supplied gratis by commercial seed organizations or firms. The names of the national standards and the firms which supplied them follow: Acala 4-42, California Planting Cotton Seed Distributors, Shafter, Calif., Lankart 57, Lankart Seed Farms, Waco, Tex., Deltapine 15, Delta and Pine Land Company, Scott, Miss., Coker 100A, Coker's Pedigreed Seed Company, Hartsville, S. C. All varieties were grown to obtain experimental data and their selection as national and regional standards does not constitute endorsement by the U. S. Department of Agriculture or the cooperating Agricultural Experiment Stations.

COMMITTEE MEMBERS

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Mr. Robert R. Coker, President, Coker's Pedigreed Seed Company, Hartsville, S. C.
Mr. Early C. Ewing, Jr., Vice President, Delta and Pine Land Company, Scott, Miss.
Dr. Harold D. Loden, Geneticist and Manager, Paymaster Farm, Anderson, Clayton and Company, Plainview, Tex.
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Others participating in the 1958 Houston Meeting:

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Mr. Claude L. Welch, Director, National Cotton Council, Memphis, Tenn.
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Dr. L. L. Ray, Texas Agricultural Experiment Station, Substation No. 8,
Route 1, Lubbock, Tex., were added to the committee in 1961.

1960 EASTERN REGIONAL COTTON VARIETY TEST

Regional Summary of Eight Locations

Varieties Combining Locations

Variety	Yield : Lbs. Lint : Per Acre	Boll Size : Grams Per : Boll	Lint : %	Seed : Index	Ginned Lint			Mi- : cro- : naire	T ₁	E ₁
					U.H.M.	Mean	Uni- : form- : ity			
Stoneville 7	789	6.03	40.3	10.5	1.09	.95	87	4.93	1.73	7.8
Dixie King	787	7.79	38.8	12.5	1.09	.93	85	4.51	1.73	6.5
Auburn 56	782	6.54	36.7	12.0	1.09	.94	86	4.42	1.75	8.2
Coker 100A	747	6.40	38.2	11.0	1.11	.94	85	4.55	1.74	7.5
Plains	741	6.87	37.6	12.2	1.07	.90	84	4.26	1.71	7.3
Empire WR	728	8.09	38.4	13.7	1.09	.92	85	4.18	1.76	6.8
Deltapine 15	700	5.82	40.1	10.2	1.08	.92	85	4.32	1.81	9.1
Acala 4-42	689	7.81	39.3	12.8	1.10	.98	89	4.26	2.09	7.6
Lankart 57	683	8.74	39.9	14.6	1.04	.88	85	4.76	1.55	9.8

Locations Combining 9 Varieties

Location	Yield : Lbs. Lint : Per Acre	Boll Size : No. Per : Pound	Lint : %	Seed : Index	Ginned Lint			Mi- : cro- : naire	T ₁	E ₁
					U.H.M.	Mean	Uni- : form- : ity			
Rocky Mount, N.C.	771	67	38.0	11.7	1.11	.96	86	3.97	1.67	8.8
Florence, S.C.	593	67	39.2	11.9	1.09	.94	86	3.87	1.68	7.5
Tifton, Ga.	611	66	39.4	11.9	1.01	.88	87	5.06	1.75	7.7
Experiment, Ga.	711	64	39.9	12.8	1.10	.96	87	5.02	1.83	8.0
Auburn, Ala.	740	66	39.0	12.2	1.08	.91	84	4.46	1.71	7.9
Sand Mt., Ala.	938	64	40.5	12.5	1.09	.94	86	4.67	1.63	8.5
St. College, Miss.	736	65	39.1	11.7	1.07	.89	84	4.51	1.91	6.8
Jackson, Tenn.	914	60	35.4	12.7	1.13	.96	85	4.18	1.93	7.5

Yield Lbs. Lint Per Acre
.05 Level

Stoneville 7	789 a
Dixie King	787 a
Auburn 56	782 a
Coker 100A	747 ab
Plains	741 abc
Empire WR	728 abc
Deltapine 15	700 bc
Acala 4-42	689 bc
Lankart 57	683 c

Boll Size, Grams Per Boll
.05 Level

Lankart 57	8.74 a
Empire WR	8.09 b
Acala 4-42	7.81 bc
Dixie King	7.79 c
Plains	6.87 d
Auburn 56	6.54 e
Coker 100A	6.40 e
Stoneville 7	6.03 f
Deltapine 15	5.82 f

Lint %
.05 Level

Stoneville 7	40.3 a
Deltapine 15	40.1 a
Lankart 57	39.9 ab
Acala 4-42	39.3 bc
Dixie King	38.8 cd
Empire WR	38.4 d
Coker 100A	38.2 de
Plains	37.6 e
Auburn 56	36.7 f

C.V. 9.2%

C.V. 3.0%

C.V. 1.5%

1960 EASTERN REGIONAL COTTON VARIETY TEST

Regional Summary of Eight Locations

Seed Index		Ginned Lint U.H.M.		Ginned Lint Mean	
Lankart 57	14.6	Coker 100A	1.11 a	Acala 4-42	.98 a
Empire WR	13.7	Acala 4-42	1.10 ab	Stoneville 7	.95 b
Acala 4-42	12.8	Stoneville 7	1.09 bc	Auburn 56	.94 bc
Dixie King	12.5	Dixie King	1.09 bc	Coker 100A	.94 bc
Plains	12.2	Auburn 56	1.09 bc	Dixie King	.93 bc
Auburn 56	12.0	Empire WR	1.09 bc	Empire WR	.92 cd
Coker 100A	11.0	Deltapine 15	1.08 cd	Deltapine 15	.92 cd
Stoneville 7	10.5	Plains	1.07 d	Plains	.90 d
Deltapine 15	10.2	Lankart 57	1.04 e	Lankart 57	.88 e
Not Analyzed					
		C.V.	2.0%	C.V.	3.3%

Ginned Lint Uniformity	
Acala 4-42	89 a
Stoneville 7	87 b
Auburn 56	86 bc
Dixie King	85 cd
Coker 100A	85 cd
Empire WR	85 cd
Deltapine 15	85 cd
Lankart 57	85 cd
Plains	84 d
C.V.	2.0%

Micronaire		T ₁		E ₁	
Stoneville 7	4.93 a	Acala 4-42	2.09 a	Lankart 57	9.8 a
Lankart 57	4.76 a	Deltapine 15	1.81 b	Deltapine 15	9.1 b
Coker 100A	4.55 b	Empire WR	1.76 b	Auburn 56	8.2 c
Dixie King	4.51 b	Auburn 56	1.75 b	Stoneville 7	7.8 d
Auburn 56	4.42 bc	Coker 100A	1.74 bc	Acala 4-42	7.6 d
Deltapine 15	4.32 cd	Dixie King	1.73 c	Coker 100A	7.5 de
Plains	4.26 cd	Stoneville 7	1.73 c	Plains	7.3 e
Acala 4-42	4.26 cd	Plains	1.71 c	Empire WR	6.8 f
Empire WR	4.18 d	Lankart 57	1.55 d	Dixie King	6.5 f
C.V.	3.8%	C.V.	3.2%	C.V.	6.1%

1960 DELTA REGIONAL COTTON VARIETY TEST

Regional Summary of Six Locations

Varieties Combining Locations

Variety	Yield Lbs. Lint Per Acre	Boll Size Grams Per Boll	Lint %	Seed Index	Ginned Lint			Micro- naire
					U.H.M.	Mean	Uni- form- ity	
Stoneville 7	1043	6.45	39.1	11.3	1.14	.97	85	4.95
DPL Smooth Leaf	982	6.30	39.3	10.7	1.14	.98	86	4.80
Deltapine Fox 4	980	6.54	37.2	12.2	1.13	.98	87	5.02
Rex	972	7.38	36.6	13.3	1.12	.94	84	4.26
Stoneville 3202	953	6.33	38.0	10.9	1.07	.92	86	4.43
Stardel	942	6.02	38.5	11.7	1.12	.94	84	4.79
Auburn 56	922	6.76	35.7	12.2	1.10	.94	86	4.45
Coker 124	908	6.78	36.7	12.2	1.14	.96	84	4.58
Deltapine 15	897	6.44	38.8	11.2	1.12	.95	85	4.67
Delfos 9169	860	7.28	34.4	13.2	1.20	.98	82	4.23
Coker 100A	852	6.57	36.4	11.7	1.14	.95	84	4.52
Empire WR	821	8.41	34.9	14.7	1.13	.96	85	4.13
Dixie King	814	7.86	36.3	13.4	1.14	.96	84	4.46
Lankart 57	789	9.02	37.9	15.2	1.06	.92	86	4.74
Acala 4-42	784	8.10	37.9	13.8	1.12	.99	88	4.44

Locations Combining 15 Varieties

Location	Yield Lbs. Lint Per Acre	Boll Size No. Per Pound	Lint %	Seed Index	Ginned Lint			Micro- naire
					U.H.M.	Mean	Uni- form- ity	
Ft. Pillow, Tenn.	1105	60	37.4	12.4	1.14	.97	85	4.42
Sikeston, Mo.	885	66	36.3	12.8	1.15	.97	85	4.24
Clarkedale, Ark.	568	68	37.2	12.1	1.13	.96	85	4.52
Tunica, Miss.	1197	63	35.7	13.1	1.11	.95	86	4.91
Stoneville, Miss.	658	69	38.0	12.0	1.09	.94	86	4.78
St. Joseph, La.	1090	66	38.6	12.6	1.12	.95	85	4.51

Yield Lbs. Lint Per Acre .05 Level		Boll Size, Grams Per Boll .05 Level		Lint % .05 Level	
Stoneville 7	1043 a	Lankart 57	9.02 a	DPL Smooth Leaf	39.3 a
DPL Smooth Leaf	982 ab	Empire WR	8.41 b	Stoneville 7	39.1 ab
Deltapine Fox 4	980 ab	Acala 4-42	8.10 bc	Deltapine 15	38.8 abc
Rex	972 abc	Dixie King	7.86 c	Stardel	38.5 abc
Stoneville 3202	953 abc	Rex	7.38 d	Stoneville 3202	38.0 abcd
Stardel	942 abcd	Delfos 9169	7.28 d	Acala 4-42	37.9 abcd
Auburn 56	922 abcde	Coker 124	6.78 e	Lankart 57	37.9 abcd
Coker 124	908 bcdef	Auburn 56	6.76 e	Deltapine Fox 4	37.2 abcde
Deltapine 15	897 bcdef	Coker 100A	6.57 ef	Coker 124	36.7 abcdef
Delfos 9169	860 bcdef	Deltapine Fox 4	6.54 ef	Rex	36.6 abcdef
Coker 100A	852 cdef	Stoneville 7	6.45 ef	Coker 100A	36.4 bcdef
Empire WR	821 def	Deltapine 15	6.44 ef	Dixie King	36.3 cdef
Dixie King	814 ef	Stoneville 3202	6.33 fg	Auburn 56	35.7 def
Lankart 57	789 f	DPL Smooth Leaf	6.30 fg	Empire WR	34.9 ef
Acala 4-42	784 f	Stardel	6.02 g	Delfos 9169	34.4 f
C.V.	9.8%	C.V.	4.6%	C.V.	1.4%

1960 DELTA REGIONAL COTTON VARIETY TEST

Regional Summary of Six Locations

Varieties Combining Locations

Variety				Drawing Sliver			A	D	22's
	T ₀	T ₁	E ₁	U.H.M.	Mean	Uni-formity			
Stoneville 7	3.52	1.70	7.5	1.12	.91	81	425	26	113
DPL Smooth Leaf	3.59	1.83	8.4	1.12	.89	79	433	26	119
Deltapine Fox 4	3.65	1.84	7.2	1.13	.92	82	420	23	121
Rex	3.53	1.62	7.6	1.07	.83	77	464	34	105
Stoneville 3202	3.42	1.60	7.5	1.04	.83	80	455	32	105
Stardel	4.11	1.89	6.5	1.09	.86	79	431	26	121
Auburn 56	3.47	1.73	7.9	1.08	.86	80	450	32	116
Coker 124	3.69	1.81	7.4	1.12	.90	81	449	29	120
Deltapine 15	3.46	1.81	8.2	1.11	.89	81	439	30	119
Delfos 9169	3.52	1.80	7.3	1.13	.88	77	474	37	120
Coker 100A	3.59	1.78	7.5	1.12	.90	80	454	30	116
Empire WR	3.81	1.76	6.7	1.11	.89	81	474	36	121
Dixie King	3.83	1.82	6.5	1.12	.90	80	452	28	120
Lankart 57	3.00	1.59	8.9	1.06	.85	80	428	33	100
Acala 4-42	3.95	2.10	7.4	1.12	.94	84	458	32	138

Locations Combining 15 Varieties

Location				Drawing Sliver			A	D	22's
	T ₀	T ₁	E ₁	U.H.M.	Mean	Uni-formity			
Ft. Pillow, Tenn.	3.54	1.81	7.3	1.12	.91	81	454	33	122
Sikeston, Mo.	3.49	1.78	8.0	1.12	.90	80	475	38	123
Clarkedale, Ark.	3.69	1.82	7.2	1.10	.87	79	459	30	117
Tunica, Miss.	3.69	1.81	6.8	1.12	.90	81	431	25	115
Stoneville, Miss.	3.93	1.74	7.9	1.06	.86	81	409	21	116
St. Joseph, La.	3.31	1.71	7.8	1.09	.87	80	456	34	108

Seed Index		Ginned Lint U.H.M.		Ginned Lint Mean	
Lankart 57	15.2	Delfos 9169	1.20 a	Acala 4-42	.99 a
Empire WR	14.7	Stoneville 7	1.14 b	DPL Smooth Leaf	.98 ab
Acala 4-42	13.8	DPL Smooth Leaf	1.14 b	Deltapine Fox 4	.98 ab
Dixie King	13.4	Coker 124	1.14 b	Delfos 9169	.98 ab
Rex	13.3	Coker 100A	1.14 b	Stoneville 7	.97 abc
Delfos 9169	13.2	Dixie King	1.14 b	Coker 124	.96 bcd
Deltapine Fox 4	12.2	Deltapine Fox 4	1.13 b	Empire WR	.96 bcd
Auburn 56	12.2	Empire WR	1.13 b	Dixie King	.96 bcd
Coker 124	12.2	Rex	1.12 bc	Deltapine 15	.95 cd
Coker 100A	11.7	Stardel	1.12 bc	Coker 100A	.95 cd
Stardel	11.7	Deltapine 15	1.12 bc	Rex	.94 de
Stoneville 7	11.3	Acala 4-42	1.12 bc	Stardel	.94 de
Deltapine 15	11.2	Auburn 56	1.10 c	Auburn 56	.94 de
Stoneville 3202	10.9	Stoneville 3202	1.07 d	Stoneville 3202	.92 e
DPL Smooth Leaf	10.7	Lankart 57	1.06 d	Lankart 57	.92 e
Not Analyzed		C.V.	2.2%	C.V.	3.2%

1960 DELTA REGIONAL COTTON VARIETY TEST

Regional Summary of Six Locations

Ginned Lint Uniformity	
Acala 4-42	88 a
Deltapine Fox 4	87 ab
DPL Smooth Leaf	86 bc
Stoneville 3202	86 bc
Auburn 56	86 bc
Lankart 57	86 bc
Stoneville 7	85 cd
Deltapine 15	85 cd
Empire WR	85 cd
Rex	84 d
Stardel	84 d
Coker 124	84 d
Coker 100A	84 d
Dixie King	84 d
Delfos 9169	82 e
C.V.	1.8%

Micronaire	
Deltapine Fox 4	5.02 a
Stoneville 7	4.95 ab
DPL Smooth Leaf	4.80 bc
Stardel	4.79 c
Lankart 57	4.74 cd
Deltapine 15	4.67 cde
Coker 124	4.58 def
Coker 100A	4.52 ef
Dixie King	4.46 f
Auburn 56	4.45 f
Acala 4-42	4.44 f
Stoneville 3202	4.43 f
Rex	4.26 g
Delfos 9169	4.23 g
Empire WR	4.13 g
C.V.	3.4%

T ₀	
Stardel	4.11 a
Acala 4-42	3.95 b
Dixie King	3.83 bc
Empire WR	3.81 bcd
Coker 124	3.69 cde
Deltapine Fox 4	3.65 def
DPL Smooth Leaf	3.59 efg
Coker 100A	3.59 efg
Rex	3.53 efg
Stoneville 7	3.52 efg
Delfos 9169	3.52 efg
Auburn 56	3.47 fg
Deltapine 15	3.46 g
Stoneville 3202	3.42 g
Lankart 57	3.00 h
C.V.	4.2%

T ₁	
Acala 4-42	2.10 a
Stardel	1.89 b
Deltapine Fox 4	1.84 bc
DPL Smooth Leaf	1.83 bcd
Dixie King	1.82 cd
Coker 124	1.81 cd
Deltapine 15	1.81 cd
Delfos 9169	1.80 cd
Coker 100A	1.78 cde
Empire WR	1.76 def
Auburn 56	1.73 ef
Stoneville 7	1.70 f
Rex	1.62 g
Stoneville 3202	1.60 g
Lankart 57	1.59 g
C.V.	4.2%

E ₁	
Lankart 57	8.9 a
DPL Smooth Leaf	8.4 b
Deltapine 15	8.2 bc
Auburn 56	7.9 cd
Rex	7.6 de
Stoneville 7	7.5 de
Stoneville 3202	7.5 de
Coker 100A	7.5 de
Acala 4-42	7.4 de
Coker 124	7.4 de
Delfos 9169	7.3 e
Deltapine Fox 4	7.2 e
Empire WR	6.7 f
Stardel	6.5 f
Dixie King	6.5 f
C.V.	6.2%

Drawing Sliver U.H.M.	
Deltapine Fox 4	1.13 a
Delfos 9169	1.13 a
Stoneville 7	1.12 a
DPL Smooth Leaf	1.12 a
Coker 124	1.12 a
Coker 100A	1.12 a
Dixie King	1.12 a
Acala 4-42	1.12 a
Deltapine 15	1.11 ab
Empire WR	1.11 ab
Stardel	1.09 bc
Auburn 56	1.08 cd
Rex	1.07 cd
Lankart 57	1.06 de
Stoneville 3202	1.04 e
C.V.	2.3%

1960 DELTA REGIONAL COTTON VARIETY TEST

Regional Summary of Six Locations

Drawing Sliver Mean		Drawing Sliver Uniformity	
Acala 4-42	.94 a	Acala 4-42	84 a
Deltapine Fox 4	.92 ab	Deltapine Fox 4	82 b
Stoneville 7	.91 abc	Stoneville 7	81 bc
Coker 124	.90 bc	Coker 124	81 bc
Coker 100A	.90 bc	Deltapine 15	81 bc
Dixie King	.90 bc	Empire WR	81 bc
DPL Smooth Leaf	.89 bcd	Stoneville 3202	80 cd
Deltapine 15	.89 bcd	Auburn 56	80 cd
Empire WR	.89 bcd	Coker 100A	80 cd
Delfos 9169	.88 cde	Dixie King	80 cd
Stardel	.86 def	Lankart 57	80 cd
Auburn 56	.86 def	DPL Smooth Leaf	79 d
Lankart 57	.85 ef	Stardel	79 d
Rex	.83 f	Rex	77 e
Stoneville 3202	.83 f	Delfos 9169	77 e
C.V.	4.1%	C.V.	2.6%

A	
Empire WR	474 a
Delfos 9169	474 a
Rex	464 b
Acala 4-42	458 bc
Stoneville 3202	455 bc
Coker 100A	454 c
Dixie King	452 c
Auburn 56	450 c
Coker 124	449 c
Deltapine 15	439 d
DPL Smooth Leaf	433 de
Stardel	431 de
Lankart 57	428 ef
Stoneville 7	425 ef
Deltapine Fox 4	420 f
C.V.	1.9%

D		22's	
Delfos 9169	37 a	Acala 4-42	138 a
Empire WR	36 ab	Deltapine Fox 4	121 b
Rex	34 abc	Stardel	121 b
Lankart 57	33 bcd	Empire WR	121 b
Stoneville 3202	32 cde	Coker 124	120 bc
Auburn 56	32 cde	Delfos 9169	120 bc
Acala 4-42	32 cde	Dixie King	120 bc
Deltapine 15	30 def	DPL Smooth Leaf	119 bc
Coker 100A	30 def	Deltapine 15	119 bc
Coker 124	29 efg	Auburn 56	116 cd
Dixie King	28 fg	Coker 100A	116 cd
Stoneville 7	26 gh	Stoneville 7	113 d
DPL Smooth Leaf	26 gh	Stoneville 3202	105 e
Stardel	26 gh	Rex	105 e
Deltapine Fox 4	23 h	Lankart 57	100 f
C.V.	14.0%	C.V.	4.9%

1960 DELTA REGIONAL COTTON VARIETY TEST
Summary of Data

Stoneville, Mississippi									
Variety	Yield	Boll	Size	Lint	Seed	Ginned Lint			
						U.H.M.	Mean	Uni-	Micro-
	Lbs. Lint	No. Per	%	Index				form-	naire
	Per Acre	Pound						ity	
Stoneville 7	901 a	75	41.5	10.4	1.10	.95	87	5.34	
DPL Smooth Leaf	844 ab	77	40.3	10.3	1.09	.95	87	5.20	
Deltapine 15	730 bc	79	40.6	10.5	1.07	.92	87	5.13	
Coker 100A	720 bc	70	37.0	11.2	1.08	.91	85	4.65	
Deltapine Fox 4	702 bc	74	38.5	11.1	1.09	.96	88	5.19	
Auburn 56	683 bcd	72	36.3	11.9	1.03	.91	89	4.64	
Stoneville 3202	660 cd	76	38.2	10.8	1.05	.90	87	4.44	
Coker 124	653 cd	69	37.4	11.6	1.10	.94	86	4.80	
Delfos 9169	640 cd	64	34.2	12.4	1.15	.94	82	4.31	
Acala 4-42	604 cd	59	39.0	13.7	1.12	1.00	89	4.67	
Rex	587 cd	66	36.5	13.4	1.11	.93	84	4.41	
Dixie King	580 cd	61	36.4	13.3	1.12	.98	87	4.64	
Stardel	561 cd	78	38.7	11.0	1.11	.94	85	4.95	
Empire WR	505 d	60	35.0	13.9	1.09	.95	87	4.36	
Lankart 57	500 d	55	40.6	14.6	1.04	.91	87	4.99	

C.V. 17.2%

St. Joseph, Louisiana

Stoneville 7	1266 a	74	40.2	11.4	1.17	1.01	87	4.96	
DPL Smooth Leaf	1210 ab	72	40.7	10.7	1.14	.98	86	4.77	
Auburn 56	1194 abc	68	37.3	12.3	1.10	.94	85	4.57	
Deltapine Fox 4	1182 abc	72	38.8	11.8	1.15	.99	86	5.02	
Stoneville 3202	1164 bc	73	39.2	11.1	1.08	.93	86	4.38	
Stardel	1162 bc	81	40.7	11.6	1.10	.92	84	4.71	
Coker 124	1153 bcd	70	38.3	12.3	1.15	.96	84	4.34	
Deltapine 15	1148 bcd	67	40.6	11.6	1.13	.96	85	4.57	
Delfos 9169	1117 cd	63	36.1	13.3	1.20	.99	82	4.12	
Coker 100A	1073 d	70	37.7	11.3	1.14	.96	84	4.53	
Rex	989 e	67	37.6	13.0	1.12	.93	83	4.28	
Dixie King	976 ef	59	37.9	13.2	1.12	.94	84	4.44	
Acala 4-42	971 f	57	39.8	14.4	1.09	.96	88	4.43	
Empire WR	871 g	54	35.4	15.6	1.15	.97	85	4.14	
Lankart 57	867 g	48	38.7	16.1	1.04	.86	83	4.36	

C.V. 5.7%

Clarkedale, Arkansas

Rex	915 a	57	37.8	13.1	1.13	.94	83	4.04	
Deltapine Fox 4	744 b	75	37.4	11.8	1.12	.98	88	5.07	
Stoneville 7	678 bc	74	38.7	11.0	1.14	.95	84	4.72	
Stardel	644 cd	81	38.1	11.1	1.13	.97	86	4.53	
Empire WR	600 de	57	35.1	13.6	1.16	.99	85	4.25	
Stoneville 3202	593 de	78	38.3	10.5	1.07	.92	86	4.40	
DPL Smooth Leaf	589 de	77	39.7	10.4	1.15	.95	83	4.62	
Auburn 56	558 de	68	35.3	12.2	1.11	.92	83	4.30	
Deltapine 15	551 de	74	38.8	10.7	1.12	.94	84	4.69	
Delfos 9169	515 e	69	34.4	12.6	1.20	1.01	84	4.28	
Lankart 57	501 e	50	37.7	14.7	1.07	.91	86	4.69	
Coker 124	499 e	73	38.0	11.6	1.15	.97	84	4.53	
Coker 100A	400 f	71	36.6	11.7	1.14	.94	83	4.77	
Acala 4-42	387 fg	58	37.1	13.4	1.12	.99	88	4.59	
Dixie King	353 g	63	35.7	13.4	1.19	1.00	84	4.40	

C.V. 13.6%

1960 DELTA REGIONAL COTTON VARIETY TEST
Summary of Data

Stoneville, Mississippi									
Variety	To	Tl	El	Drawing Sliver			A	D	22's
				U.H.M.	Mean	Uni-form-ity			
Stoneville 7	3.91	1.67	7.9	1.08	.88	81	381	16	110
DPL Smooth Leaf	3.82	1.86	8.6	1.06	.83	79	381	17	110
Deltapine 15	3.77	1.73	8.7	1.06	.89	84	389	19	117
Coker 100A	4.08	1.70	7.9	1.05	.83	80	415	19	109
Deltapine Fox 4	3.97	1.80	7.5	1.06	.87	82	380	16	120
Auburn 56	3.95	1.71	7.9	1.04	.85	81	417	25	121
Stoneville 3202	3.74	1.57	7.3	1.01	.83	83	425	28	104
Coker 124	4.02	1.89	7.2	1.06	.84	80	411	22	120
Delfos 9169	3.75	1.75	8.2	1.09	.87	80	452	28	121
Acala 4-42	4.09	2.01	8.9	1.10	.94	85	428	24	142
Rex	3.95	1.60	8.0	1.05	.80	77	425	25	104
Dixie King	4.18	1.79	7.5	1.08	.83	77	418	19	119
Stardel	4.47	1.77	7.1	1.09	.90	83	395	20	122
Empire WR	4.21	1.65	6.9	1.08	.87	81	433	24	117
Lankart 57	3.12	1.66	8.8	1.02	.84	83	392	22	103

St. Joseph, Louisiana

Stoneville 7	3.10	1.58	7.7	1.12	.91	81	437	31	106
DPL Smooth Leaf	3.29	1.79	8.7	1.11	.88	80	437	28	109
Auburn 56	3.24	1.65	8.2	1.08	.86	80	453	30	106
Deltapine Fox 4	3.33	1.75	7.4	1.12	.91	82	427	26	114
Stoneville 3202	3.26	1.59	7.9	1.05	.82	78	462	37	101
Stardel	3.80	1.88	7.0	1.07	.83	78	444	27	114
Coker 124	3.41	1.73	7.5	1.12	.89	80	460	35	113
Deltapine 15	3.18	1.78	8.3	1.12	.90	81	442	29	112
Delfos 9169	2.99	1.69	7.9	1.15	.92	80	481	44	116
Coker 100A	3.33	1.76	7.7	1.10	.89	81	465	32	110
Rex	3.30	1.58	7.9	1.07	.83	78	475	38	96
Dixie King	3.72	1.72	6.6	1.08	.88	81	456	30	110
Acala 4-42	3.52	1.91	7.9	1.11	.90	81	460	38	119
Empire WR	3.43	1.73	6.9	1.09	.88	81	486	41	110
Lankart 57	2.72	1.47	9.5	1.06	.82	77	453	43	85

Clarkedale, Arkansas

Rex	3.56	1.60	6.6	1.06	.80	75	472	31	102
Deltapine Fox 4	3.51	1.83	6.6	1.11	.90	81	428	23	117
Stoneville 7	3.74	1.77	7.5	1.13	.90	80	442	27	112
Stardel	4.30	1.97	6.2	1.09	.85	78	457	30	123
Empire WR	3.97	1.82	7.3	1.13	.91	80	477	37	127
Stoneville 3202	3.52	1.62	7.1	1.02	.79	78	471	24	101
DPL Smooth Leaf	3.63	1.82	8.1	1.09	.85	78	455	24	123
Auburn 56	3.37	1.78	7.2	1.04	.82	79	465	30	113
Deltapine 15	3.55	1.91	7.8	1.08	.85	79	445	30	121
Delfos 9169	3.68	1.79	7.9	1.14	.89	78	483	40	123
Lankart 57	3.13	1.65	8.6	1.08	.85	79	437	38	104
Coker 124	3.65	1.84	7.3	1.12	.91	81	465	26	120
Coker 100A	3.63	1.81	7.1	1.11	.88	80	459	27	111
Acala 4-42	4.10	2.21	6.8	1.13	.94	83	466	30	140
Dixie King	4.05	1.93	7.0	1.15	.92	80	463	31	121

1960 DELTA REGIONAL COTTON VARIETY TEST
Summary of Data

Tunica, Mississippi

Variety	:	Yield	:	Boll	:	Ginned Lint			:
	:	Lbs. Lint	:	Size	:	Seed	:	Uni-	:
	:	Per Acre	:	No. Per	:	Index	:	form-	:
	:		:	Pound	:		:	ity	:
Stoneville 3202		1391 a		70		36.5		11.5	
Coker 124		1339 ab		64		34.8		13.1	
Stoneville 7		1315 abc		65		37.0		12.2	
DPL Smooth Leaf		1314 abc		68		37.9		11.6	
Auburn 56		1268 abcd		69		34.7		12.2	
Deltapine Fox 4		1261 abcd		65		35.7		13.4	
Dixie King		1207 bcd		56		34.9		14.0	
Stardel		1204 bcd		68		37.1		12.6	
Coker 100A		1202 bcd		69		34.9		13.0	
Delfos 9169		1170 bcd		59		33.2		13.7	
Empire WR		1153 cde		51		34.4		15.5	
Rex		1126 de		62		35.7		13.6	
Acala 4-42		1120 de		55		35.7		14.0	
Deltapine 15		1011 ef		67		37.5		11.8	
Lankart 57		876 f		54		35.9		14.8	
						1.05	.91	87	4.63
						1.13	.96	85	4.99
						1.16	1.00	87	5.23
						1.13	.98	87	5.10
						1.11	.97	87	4.74
						1.11	.93	84	5.28
						1.10	.94	85	4.84
						1.11	.93	84	5.28
						1.15	.99	86	4.87
						1.16	.96	83	4.56
						1.09	.95	87	4.57
						1.08	.92	86	4.89
						1.15	1.01	88	4.77
						1.15	.99	86	4.73
						1.05	.91	88	5.17

C.V. 7.4%

Ft. Pillow, Tennessee

Stardel	1232	a	69	38.5	11.9	1.12	.92	82	4.74
Stoneville 7	1162	ab	65	39.5	10.7	1.13	.94	84	4.88
Stoneville 3202	1147	abc	67	38.3	10.3	1.10	.95	87	4.32
Deltapine Fox 4	1129	abcd	65	36.9	12.4	1.16	1.02	88	4.77
Auburn 56	1126	abcd	62	36.0	11.8	1.15	.99	86	4.23
DPL Smooth Leaf	1126	abcd	66	39.3	10.7	1.17	1.02	87	4.68
Coker 100A	1111	abcd	61	36.7	11.2	1.16	.96	83	4.44
Coker 124	1107	bcd	61	37.0	12.2	1.15	.98	85	4.54
Acala 4-42	1094	bcd	51	37.8	14.0	1.16	1.01	87	4.30
Rex	1094	bcd	56	37.3	13.1	1.18	1.00	85	3.97
Deltapine 15	1090	bcd	66	38.7	11.2	1.10	.92	84	4.55
Delfos 9169	1069	bcd	59	35.1	13.6	1.24	.99	80	4.13
Dixie King	1054	bcd	55	36.8	12.9	1.14	.96	84	4.28
Lankart 57	1027	cd	46	37.6	15.9	1.10	.97	89	4.71
Empire WR	1013	d	51	35.1	14.2	1.14	.95	83	3.82

C.V. 8.3%

Sikeston, Missouri

Rex	1093	a	65	35.0	13.4	1.13	.93	83	3.97
Stoneville 7	1067	ab	72	37.6	12.0	1.16	.98	85	4.57
DPL Smooth Leaf	968	abc	76	38.1	10.8	1.19	1.02	86	4.47
Lankart 57	949	bc	52	37.0	15.3	1.10	.94	86	4.55
Deltapine Fox 4	935	bc	68	36.0	12.7	1.16	1.00	86	4.79
Stoneville 3202	915	c	69	37.7	11.1	1.09	.94	86	4.40
Deltapine 15	895	cd	73	36.9	11.8	1.16	.98	85	4.33
Stardel	883	cd	79	38.2	12.1	1.15	.99	86	4.54
Dixie King	869	cd	55	36.0	13.5	1.15	.96	83	4.14
Coker 124	860	cd	68	34.8	12.4	1.18	.99	84	4.29
Empire WR	860	cd	53	34.7	15.3	1.16	.97	84	3.64
Auburn 56	827	cd	67	35.0	12.8	1.12	.96	85	4.20
Delfos 9169	759	de	64	33.7	13.6	1.23	.99	81	4.01
Coker 100A	757	de	78	35.8	11.8	1.16	.96	84	3.88
Acala 4-42	643	e	58	37.9	13.1	1.10	.97	88	3.91

C.V. 11.0%

1960 DELTA REGIONAL COTTON VARIETY TEST
Summary of Data

Variety	Tunica, Mississippi								
	To	Tl	El	Drawing Sliver			A	D	22's
				U.H.M.	Mean	Uni-formity			
Stoneville 3202	3.47	1.63	7.0	1.05	.84	80	442	26	102
Coker 124	3.82	1.75	7.5	1.13	.90	80	424	26	118
Stoneville 7	3.76	1.79	6.6	1.16	.95	82	416	23	111
DPL Smooth Leaf	3.57	1.87	7.9	1.15	.92	80	429	22	121
Auburn 56	3.62	1.76	7.7	1.10	.90	83	433	30	114
Deltapine Fox 4	3.75	1.86	6.8	1.17	.98	84	413	19	123
Dixie King	3.93	1.91	5.3	1.13	.90	80	428	20	120
Stardel	4.13	1.97	5.5	1.10	.88	79	409	19	114
Coker 100A	3.68	1.84	6.9	1.14	.90	79	431	25	119
Delfos 9169	3.48	1.81	6.7	1.11	.84	76	462	28	113
Empire WR	4.07	1.82	5.2	1.09	.86	79	446	27	115
Rex	3.57	1.62	6.7	1.08	.86	80	432	26	101
Acala 4-42	3.92	2.11	6.7	1.17	1.00	85	446	31	136
Deltapine 15	3.62	1.84	7.8	1.16	.93	80	438	31	119
Lankart 57	3.04	1.54	8.7	1.07	.90	84	416	28	99

Ft. Pillow, Tennessee

Stardel	4.04	1.85	6.4	1.10	.86	79	437	26	128
Stoneville 7	3.08	1.68	7.2	1.10	.91	84	425	27	113
Stoneville 3202	3.24	1.60	7.3	1.09	.88	81	456	37	110
Deltapine Fox 4	3.82	1.95	7.7	1.14	.92	82	431	27	125
Auburn 56	3.40	1.84	7.9	1.12	.92	83	455	40	122
DPL Smooth Leaf	3.59	1.89	8.3	1.14	.92	81	439	31	123
Coker 100A	3.52	1.82	7.5	1.16	.94	82	459	34	125
Coker 124	3.72	1.82	7.3	1.14	.93	82	455	32	125
Acala 4-42	4.15	2.22	7.2	1.15	.97	85	465	37	147
Rex	3.62	1.73	7.8	1.12	.87	78	485	38	115
Deltapine 15	3.29	1.78	7.7	1.10	.88	80	446	32	119
Delfos 9169	3.77	1.92	6.2	1.18	.89	76	471	33	127
Dixie King	3.54	1.78	6.0	1.11	.92	83	463	29	131
Lankart 57	2.99	1.60	8.8	1.09	.88	81	429	33	103
Empire WR	3.41	1.69	6.5	1.11	.91	82	494	39	127

Sikeston, Missouri

Rex	3.21	1.60	8.9	1.09	.82	76	499	46	111
Stoneville 7	3.54	1.74	8.1	1.14	.93	82	448	33	124
DPL Smooth Leaf	3.66	1.77	9.1	1.16	.94	81	462	32	127
Lankart 57	3.00	1.60	9.2	1.06	.85	80	441	33	107
Deltapine Fox 4	3.54	1.85	7.4	1.17	.98	84	444	30	128
Stoneville 3202	3.33	1.59	8.4	1.04	.81	78	474	40	110
Deltapine 15	3.35	1.83	8.9	1.12	.90	81	475	39	128
Stardel	3.92	1.89	7.1	1.12	.86	77	448	34	127
Dixie King	3.60	1.80	6.9	1.16	.96	83	483	40	123
Coker 124	3.53	1.86	7.5	1.16	.97	84	480	32	125
Empire WR	3.75	1.83	7.6	1.15	.93	82	512	48	132
Auburn 56	3.26	1.63	8.5	1.09	.84	78	480	39	119
Delfos 9169	3.46	1.86	7.2	1.14	.87	76	497	49	120
Coker 100A	3.31	1.76	7.9	1.16	.96	83	495	41	123
Acala 4-42	3.90	2.14	7.2	1.10	.92	84	485	34	143

1960 TEXAS-OKLAHOMA-ARKANSAS-LOUISIANA REGIONAL COTTON VARIETY TEST

Regional Summary of Seven Locations

Varieties Combining Locations

Varieties Combining Locations										
Variety	Yield	Boll Size	Lint	Seed	Ginned Lint			Mi-	T ₁	E ₁
	Lbs. Lint	Grams Per	%	Index	U.H.M.	Mean	Uni-	cro-		
	Per Acre	Boll					form-ity	naire		
Stoneville 7	851	5.51	39.5	10.9	1.10	.94	85	5.05	1.75	6.8
Deltapine 15	791	5.47	39.9	10.8	1.08	.90	83	4.74	1.83	7.5
Coker 100A	774	5.58	36.7	11.4	1.12	.93	83	4.60	1.80	7.2
Stardel	771	5.29	38.2	11.4	1.10	.92	83	4.57	1.94	6.1
Dixie King	767	6.62	37.0	12.5	1.10	.92	83	4.60	1.77	6.4
Stoneville 62	761	5.84	37.8	11.7	1.02	.87	85	4.69	1.67	6.6
Rex	746	6.08	36.7	12.9	1.09	.88	81	4.38	1.65	7.4
Lankart 57	738	7.66	39.3	14.7	1.05	.91	86	4.94	1.62	9.7
Delfos 9169	733	6.33	34.8	12.8	1.16	.94	81	4.33	1.78	7.5
Empire WR	683	6.95	36.1	14.3	1.10	.91	83	4.32	1.76	7.0
Acala 4-42	650	6.78	38.7	13.1	1.10	.95	86	4.42	2.18	6.8
N. Star 4-11	634	6.87	36.3	12.7	1.06	.90	84	4.52	1.85	7.3

Locations Combining 12 Varieties

Locations combining 12 varieties										
Location	Yield	Boll	Lint	Seed	Ginned Lint			Mi-	T ₁	E ₁
	Size	Size			Uni-	cro-				
	No. Per	%			Index	U.H.M.	Mean			
	Lbs. Lint	Pound					ity			
Stillwater, Okla.	618	71	38.5	12.2	1.05	.87	83	4.46	1.81	7.9
Greenville, Tex.	511	73	36.1	12.5	1.15	.98	86	4.33	1.89	6.4
College Sta., Tex.	1055	74	36.9	12.1	1.12	.91	82	4.69	1.77	8.1
Beeville, Tex.	284	95	37.4	-	1.05	.86	81	4.37	1.74	7.6
Weslaco, Tex.	1054	63	35.9	12.9	1.10	.95	86	4.42	1.85	6.8
Hope, Ark.	670	71	40.5	11.7	.99	.81	82	5.35	1.69	6.4
Bossier City, La.	1049	69	36.9	13.4	1.17	1.01	86	4.55	1.84	7.2

Yield Lbs. Lint Per Acre .05 Level		
Stoneville 7	851	a
Deltapine 15	791	ab
Coker 100A	774	b
Stardel	771	b
Dixie King	767	b
Stoneville 62	761	bc
Rex	746	bc
Lankart 57	738	bc
Delfos 9169	733	bc
Empire WR	683	ca
Acala 4-42	650	d
N. Star 4-11	634	d
C.V.	10.5%	

Boll Size, Grams Per Boll .05 Level		
Lankart 57	7.66	a
Empire WR	6.95	b
N. Star 4-11	6.87	b
Acala 4-42	6.78	b
Dixie King	6.62	bc
Delfos 9169	6.33	cd
Rex	6.08	de
Stoneville 62	5.84	ef
Coker 100A	5.58	fg
Stoneville 7	5.51	fg
Deltapine 15	5.47	g
Stardel	5.29	g
C.V.	4.1%	

Lint % .05 Level	
Deltapine 15	39.9 a
Stoneville 7	39.5 ab
Lankart 57	39.3 ab
Acala 4-42	38.7 bc
Stardel	38.2 c
Stoneville 62	37.8 cd
Dixie King	37.0 de
Coker 100A	36.7 e
Rex	36.7 e
N. Star 4-11	36.3 e
Empire WR	36.1 e
Delfos 9169	34.8 f
C.V.	1.6%

1960 TEXAS-OKLAHOMA-ARKANSAS-LOUISIANA REGIONAL COTTON VARIETY TEST

Regional Summary of Seven Locations

Seed Index		Ginned Lint U.H.M.		Ginned Lint Mean	
Lankart 57	14.7	Delfos 9169	1.16 a	Acala 4-42	.95 a
Empire WR	14.3	Coker 100A	1.12 b	Stoneville 7	.94 ab
Acala 4-42	13.1	Stoneville 7	1.10 bc	Delfos 9169	.94 ab
Rex	12.9	Stardel	1.10 bc	Coker 100A	.93 abc
Delfos 9169	12.8	Dixie King	1.10 bc	Stardel	.92 bcd
N. Star 4-11	12.7	Empire WR	1.10 bc	Dixie King	.92 bcd
Dixie King	12.5	Acala 4-42	1.10 bc	Lankart 57	.91 cd
Stoneville 62	11.7	Rex	1.09 c	Empire WR	.91 cd
Coker 100A	11.4	Deltapine 15	1.08 cd	Deltapine 15	.90 de
Stardel	11.4	N. Star 4-11	1.06 de	N. Star 4-11	.90 de
Stoneville 7	10.9	Lankart 57	1.05 e	Rex	.88 ef
Deltapine 15	10.8	Stoneville 62	1.02 f	Stoneville 62	.87 f
Not Analyzed		C.V.	2.3%	C.V.	3.6%

Ginned Lint Uniformity	
Lankart 57	86 a
Acala 4-42	86 a
Stoneville 7	85 ab
Stoneville 62	85 ab
N. Star 4-11	84 bc
Deltapine 15	83 c
Coker 100A	83 c
Stardel	83 c
Dixie King	83 c
Empire WR	83 c
Rex	81 d
Delfos 9169	81 d
C.V.	2.4%

Micronaire		T ₁		E ₁	
Stoneville 7	5.05 a	Acala 4-42	2.18 a	Lankart 57	9.7 a
Lankart 57	4.94 a	Stardel	1.94 b	Deltapine 15	7.5 b
Deltapine 15	4.74 b	N. Star 4-11	1.85 c	Delfos 9169	7.5 b
Stoneville 62	4.69 bc	Deltapine 15	1.83 cd	Rex	7.4 bc
Coker 100A	4.60 bcd	Coker 100A	1.80 cde	N. Star 4-11	7.3 bc
Dixie King	4.60 bcd	Delfos 9169	1.78 cde	Coker 100A	7.2 bcd
Stardel	4.57 bcde	Dixie King	1.77 de	Empire WR	7.0 bcd
N. Star 4-11	4.52 cdef	Empire WR	1.76 de	Stoneville 7	6.8 bcde
Acala 4-42	4.42 def	Stoneville 7	1.75 e	Acala 4-42	6.8 bcde
Rex	4.38 ef	Stoneville 62	1.67 f	Stoneville 62	6.6 cde
Delfos 9169	4.33 f	Rex	1.65 f	Dixie King	6.4 de
Empire WR	4.32 f	Lankart 57	1.62 f	Stardel	6.1 e
C.V.	4.7%	C.V.	4.9%	C.V.	7.7%

1960 TEXAS-OKLAHOMA-ARKANSAS-LOUISIANA REGIONAL COTTON VARIETY TEST
Summary of Data

Stillwater, Oklahoma

Starkwater, Oklahoma										
Variety	Yield Lbs. Lint Per Acre	Boll Size No. Per Pound	Lint %	Seed Index	Ginned Lint			Mi- cro- naire	T ₁	E ₁
					U.H.M.	Mean	Uni- form- ity			
Lankart 57	697 a	54	40.3	15.0	1.06	.91	86	4.80	1.54	13.6
Stoneville 7	664 ab	80	39.6	11.1	1.06	.88	83	4.56	1.76	7.6
Deltapine 15	660 ab	83	41.9	10.4	1.05	.85	82	4.60	1.86	7.5
Dixie King	654 ab	68	39.1	11.9	1.06	.91	87	5.06	1.71	8.2
N. Star 4-11	654 ab	72	39.0	10.6	.97	.80	83	4.55	1.84	6.4
Stoneville 62	646 ab	75	38.3	11.7	1.00	.83	83	4.52	1.73	6.0
Stardel	608 bc	78	38.7	12.1	1.06	.86	82	4.32	2.02	5.8
Rex	603 bc	71	36.2	12.6	1.05	.82	79	4.09	1.59	8.8
Coker 100A	594 bcd	80	37.4	11.2	1.06	.89	84	4.52	1.83	8.1
Acala 4-42	561 cd	68	41.0	12.8	1.06	.90	85	4.19	2.41	5.9
Empire WR	551 cd	61	36.4	14.3	1.10	.93	84	4.24	1.77	9.1
Delfos 9169	521 d	70	34.0	12.9	1.13	.89	79	4.15	1.74	8.5

C.V. 10.2%

Greenville, Texas

Rex	670	a	73	35.6	12.8	1.14	.95	84	4.08	1.76	6.3
Stoneville 7	621	ab	83	38.5	11.1	1.18	1.04	88	4.87	1.89	6.1
Lankart 57	587	bc	62	40.3	14.0	1.09	.96	88	4.58	1.69	8.5
Stoneville 62	578	bc	74	36.1	12.2	1.07	.95	89	4.53	1.79	6.2
Dixie King	521	cd	69	34.7	12.9	1.14	.96	84	4.09	1.87	5.4
Deltapine 15	511	cde	85	37.7	11.0	1.16	1.02	88	4.46	1.94	7.3
Delfos 9169	486	de	71	33.1	13.4	1.21	.99	82	4.14	1.88	6.5
Coker 100A	473	de	79	34.0	12.0	1.20	.98	82	4.25	1.87	6.2
Empire WR	456	de	65	34.5	14.0	1.16	.98	85	3.90	1.85	5.5
Stardel	436	def	84	37.1	11.8	1.18	1.04	88	4.64	1.97	5.8
N. Star 4-11	430	ef	64	34.3	13.1	1.12	.94	84	4.29	1.96	7.1
Acala 4-42	370	f	64	37.8	12.5	1.17	1.01	87	4.11	2.30	6.0

C.V. 13.0%

College Station, Texas

Stoneville 7	1241	a	89	39.1	10.8	1.15	.96	83	5.24	1.75	7.7
Delfos 9169	1173	ab	72	35.2	11.6	1.18	.91	77	4.42	1.70	8.3
Stardel	1163	ab	91	38.0	10.4	1.13	.90	79	4.49	1.91	7.0
Coker 100A	1102	bc	82	36.3	10.6	1.15	.95	83	4.68	1.73	8.0
Deltapine 15	1101	bc	82	40.3	10.0	1.10	.90	82	4.83	1.75	8.6
Stoneville 62	1094	bc	82	37.5	10.9	1.04	.87	84	4.64	1.65	7.9
Dixie King	1062	cd	70	35.8	12.8	1.15	.93	81	4.62	1.88	6.8
Rex	1008	de	74	36.3	12.4	1.10	.87	79	4.67	1.60	8.5
Lankart 57	979	de	58	37.5	14.8	1.06	.88	83	5.14	1.64	9.7
Empire WR	961	e	65	35.3	14.3	1.12	.90	80	4.43	1.79	8.1
Acala 4-42	948	e	66	37.3	13.4	1.15	1.00	87	4.64	2.08	7.7
N. Star 4-11	828	f	64	34.6	13.5	1.11	.93	84	4.54	1.83	8.6

C.V. 7.7%

Beeville, Texas

Deltapine 15	319	a	104	39.2	-	1.06	.84	79	4.45	1.79	8.4
Stoneville 7	318	a	98	39.2	-	1.05	.87	84	5.19	1.71	6.7
Rex	311	ab	98	37.0	-	1.09	.87	80	4.16	1.65	7.4
Dixie King	300	abc	90	36.6	-	1.04	.82	79	4.43	1.71	7.0
Stardel	300	abc	106	37.0	-	1.05	.85	81	4.27	1.83	7.1
Lankart 57	295	abc	78	38.9	-	1.04	.88	85	4.39	1.57	9.8
Coker 100A	289	abc	109	37.3	-	1.05	.84	80	4.49	1.70	7.5
Stoneville 62	274	abcd	108	37.8	-	1.00	.82	82	4.44	1.56	7.2
Empire WR	265	abcd	81	36.5	-	1.05	.83	80	4.13	1.65	7.3
Acala 4-42	257	bcd	90	38.2	-	1.08	.90	84	4.01	2.10	7.4
Delfos 9169	251	cd	91	35.5	-	1.11	.91	82	4.30	1.80	7.5
N. Star 4-11	232	d	82	35.9	-	1.06	.89	84	4.25	1.83	7.7

C.V. 14.8%

1960 TEXAS-OKLAHOMA-ARKANSAS-LOUISIANA REGIONAL COTTON VARIETY TEST
Summary of Data

Variety	Weslaco, Texas ^{2/}									
	Yield	Boll	Lint	Seed	Ginned Lint			Mi-	T ₁	E ₁
					U.H.M.	Mean	Uni-			
	Lbs. Lint	Size	%	Index			form-	cro-		
	Per Acre	No. Per					ity	naire		
		Pound								
Stoneville 7	1231 a	75	39.0	9.9	1.09	.95	87	4.84	1.71	6.8
Coker 100A	1166 ab	69	36.2	11.7	1.14	.96	85	4.54	1.89	6.6
Deltapine 15	1148 ab	71	37.7	11.3	1.09	.93	86	4.32	1.92	7.1
Dixie King	1129 abc	60	35.7	12.7	1.13	.97	86	4.27	1.88	5.8
Stoneville 62	1065 bcd	65	35.6	12.3	1.05	.91	87	4.45	1.65	6.6
Rex	1055 bcde	62	35.2	13.9	1.11	.95	86	4.30	1.73	6.8
Stardel	1041 bcde	76	35.7	12.0	1.13	.97	87	4.22	2.01	6.3
N. Star 4-11	990 cde	60	34.3	13.0	1.09	.95	87	4.23	1.83	6.9
Delfos 9169	980 cde	63	32.9	13.3	1.19	.99	83	4.06	1.91	7.5
Lankart 57	970 de	48	37.5	15.7	1.06	.93	88	4.92	1.64	8.9
Empire WR	962 de	56	34.7	14.5	1.10	.92	84	4.38	1.84	6.1
Acala 4-42	907 e	54	36.1	14.0	1.11	.99	89	4.54	2.27	6.0
C.V.	8.8%									

Hope, Arkansas

Coker 100A	774 a	77	38.3	11.1	1.03	.83	81	5.22	1.72	6.3
Stoneville 7	764 a	79	42.1	10.5	1.03	.86	84	5.52	1.72	5.3
Dixie King	724 ab	63	40.0	10.9	.99	.81	82	5.15	1.55	5.3
Empire WR	690 abc	62	40.0	13.0	1.01	.83	82	5.18	1.50	6.6
Stardel	682 abc	89	41.5	10.6	1.00	.82	82	5.37	1.90	5.0
Deltapine 15	681 abc	78	42.3	11.9	.99	.81	82	5.85	1.71	6.9
Lankart 57	676 abc	57	41.9	13.6	.96	.83	87	5.93	1.64	8.9
Rex	667 abc	71	40.1	12.0	.99	.78	79	5.18	1.50	7.1
Stoneville 62	647 bcd	78	40.5	10.9	.93	.77	83	5.42	1.59	5.8
Acala 4-42	618 bcd	66	41.5	12.0	.96	.80	83	5.20	1.95	6.8
Delfos 9169	580 cd	75	37.3	11.8	1.04	.80	77	4.93	1.62	6.9
N. Star 4-11	542 d	64	40.3	12.0	.97	.79	82	5.28	1.89	6.2
C.V.	13.0%									

Bossier City, Louisiana

Deltapine 15	1201 a	78	39.4	10.6	1.16	.99	86	4.72	1.82	6.8
Stardel	1201 a	79	38.3	11.8	1.18	1.00	85	4.67	1.97	5.9
Stoneville 7	1165 a	77	38.9	11.8	1.16	1.02	88	5.16	1.76	7.6
Delfos 9169	1145 ab	64	34.8	13.9	1.28	1.11	86	4.29	1.83	7.3
Coker 100A	1095 abc	78	37.2	11.8	1.21	1.04	86	4.54	1.89	7.7
Stoneville 62	1063 abcd	69	37.9	12.6	1.08	.97	90	4.86	1.74	6.3
Dixie King	1049 abcd	64	36.3	14.0	1.19	1.02	86	4.59	1.82	6.6
Lankart 57	1002 bcde	59	37.6	15.8	1.11	.97	87	4.85	1.60	8.9
Rex	960 cde	75	35.8	14.6	1.17	.96	82	4.22	1.77	7.1
Empire WR	936 de	67	34.9	15.8	1.19	1.03	87	3.99	1.91	6.2
Acala 4-42	919 de	65	37.7	14.2	1.16	1.04	90	4.24	2.15	7.7
N. Star 4-11	853 e	59	35.0	14.2	1.13	.99	87	4.50	1.79	8.3
C.V.	10.2%									

^{2/} Boll size, lint % and seed index are from one sample.

1960 PLAINS REGIONAL COTTON VARIETY TEST

Regional Summary of Eight Locations

Varieties Combining Locations

Variety	Yield Lbs. Lint Per Acre	Boll Size Grams Per Boll	Lint %	Seed Index	Ginned Lint			Mi- cro- naire	T ₁	E ₁
					U.H.M.	Mean	Uni- form- ity			
Lankart 57	758	8.05	39.1	14.8	1.05	.90	86	4.91	1.59	9.9
Austin	740	7.06	38.2	13.2	1.07	.89	84	4.45	1.68	7.6
Paymaster 101	739	6.58	37.9	11.7	.97	.83	86	4.68	1.78	8.6
Paymaster 54B	702	6.98	38.6	11.9	.96	.82	86	4.49	1.73	9.4
Lockett 88A	689	6.49	37.7	12.0	.97	.84	86	4.74	1.73	7.4
Deltapine 15	678	6.08	38.9	11.5	1.11	.94	85	4.59	1.86	8.4
Gregg	663	6.34	35.5	12.6	.99	.86	87	4.48	1.96	7.8
Coker 100A	659	6.05	37.3	11.7	1.12	.94	84	4.48	1.83	7.7
Blightmaster	648	6.54	36.8	12.3	1.05	.86	82	4.34	1.72	8.5
W. Stormproof	627	7.08	39.4	12.5	1.01	.86	85	4.35	1.66	6.9
N. Star 4-11	611	7.41	36.8	13.3	1.07	.91	85	4.30	1.76	8.4
Acala 4-42	554	7.31	38.9	13.2	1.10	.96	87	4.30	2.22	7.4

Locations Combining 12 Varieties

Location	Yield Lbs. Lint Per Acre	Boll Size No. Per Pound	Lint %	Seed Index	Ginned Lint			Mi- cro- naire	T ₁	E ₁
					U.H.M.	Mean	Uni- form- ity			
Brownfield, Tex.	900	66	37.8	11.9	.96	.80	83	4.41	1.67	8.2
Lubbock, Tex.	763	72	38.0	12.6	1.09	.93	86	4.42	1.80	8.3
Halfway, Tex.	527	70	39.2	12.4	1.04	.87	84	4.65	1.82	8.9
Spur, Tex.	287	72	39.6	10.8	.94	.81	86	4.64	1.74	7.9
Chillicothe, Tex.	757	65	37.5	-	1.05	.88	84	4.64	1.90	7.8
Altus, Okla.	1026	60	37.5	13.2	1.07	.92	86	4.47	1.72	8.7
Chickasha, Okla.	570	70	35.2	12.6	1.07	.94	88	4.31	1.93	6.9
Mangum, Okla.	448	65	38.5	14.4	1.09	.93	85	4.53	1.76	8.5

Yield Lbs. Lint Per Acre
.05 Level

Lankart 57	758 a
Austin	740 ab
Paymaster 101	739 ab
Paymaster 54B	702 ab
Lockett 88A	689 abcd
Deltapine 15	678 abcd
Gregg	663 bcd
Coker 100A	659 bcd
Blightmaster	648 cd
W. Stormproof	627 cde
N. Star 4-11	611 de
Acala 4-42	554 e

C.V. 11.7%

Boll Size, Grams Per Boll
.05 Level

Lankart 57	8.05 a
N. Star 4-11	7.41 b
Acala 4-42	7.31 b
W. Stormproof	7.08 bc
Austin	7.06 bc
Paymaster 54B	6.98 bcd
Paymaster 101	6.58 cde
Blightmaster	6.54 def
Lockett 88A	6.49 def
Gregg	6.34 ef
Deltapine 15	6.08 ef
Coker 100A	6.05 f

C.V. 7.4%

Lint %
.05 Level

W. Stormproof	39.4 a
Lankart 57	39.1 ab
Deltapine 15	38.9 abc
Acala 4-42	38.9 abc
Paymaster 54B	38.6 abcd
Austin	38.2 bcde
Paymaster 101	37.9 cde
Lockett 88A	37.7 def
Coker 100A	37.3 ef
Blightmaster	36.8 f
N. Star 4-11	36.8 f
Gregg	35.5 g

C.V. 3.3%

1960 PLAINS REGIONAL COTTON VARIETY TEST

Regional Summary of Eight Locations

Seed Index		Ginned Lint U.H.M.		Ginned Lint Mean	
Lankart 57	14.8	Coker 100A	1.12 a	Acala 4-42	.96 a
N. Star 4-11	13.3	Deltapine 15	1.11 a	Coker 100A	.94 a
Austin	13.2	Acala 4-42	1.10 a	Deltapine 15	.94 a
Acala 4-42	13.2	Austin	1.07 b	N. Star 4-11	.91 b
Gregg	12.6	N. Star 4-11	1.07 b	Lankart 57	.90 b
W. Stormproof	12.5	Lankart 57	1.05 b	Austin	.89 b
Blightmaster	12.3	Blightmaster	1.05 b	Gregg	.86 c
Lockett 88A	12.0	W. Stormproof	1.01 c	Blightmaster	.86 c
Paymaster 54B	11.9	Gregg	.99 cd	W. Stormproof	.86 c
Paymaster 101	11.7	Paymaster 101	.97 d	Lockett 88A	.84 cd
Coker 100A	11.7	Lockett 88A	.97 d	Paymaster 101	.83 d
Deltapine 15	11.5	Paymaster 54B	.96 d	Paymaster 54B	.82 d
Not Analyzed		C.V.	3.4%	C.V.	4.6%

Ginned Lint Uniformity	
Acala 4-42	.87 a
Gregg	.87 a
Lankart	.86 ab
Paymaster 101	.86 ab
Paymaster 54B	.86 ab
Lockett 88A	.86 ab
Deltapine 15	.85 bc
W. Stormproof	.85 bc
N. Star 4-11	.85 bc
Austin	.84 c
Coker 100A	.84 c
Blightmaster	.82 d
C.V.	2.2%

Micronaire		T ₁		E ₁	
Lankart 57	4.91 a	Acala 4-42	2.22 a	Lankart 57	9.9 a
Lockett 88A	4.74 ab	Gregg	1.96 b	Paymaster 54B	9.4 a
Paymaster 101	4.68 abc	Deltapine 15	1.86 c	Paymaster 101	8.6 b
Deltapine 15	4.59 bcd	Coker 100A	1.83 cd	Blightmaster	8.5 b
Paymaster 54B	4.49 cde	Paymaster 101	1.78 cde	N. Star 4-11	8.4 bc
Gregg	4.48 cde	N. Star 4-11	1.76 de	Deltapine 15	8.4 bc
Coker 100A	4.48 cde	Paymaster 54B	1.73 ef	Gregg	7.8 cd
Austin	4.45 cde	Lockett 88A	1.73 ef	Coker 100A	7.7 d
W. Stormproof	4.35 de	Blightmaster	1.72 ef	Austin	7.6 d
Blightmaster	4.34 de	Austin	1.68 f	Lockett 88A	7.4 de
N. Star 4-11	4.30 e	W. Stormproof	1.66 fg	Acala 4-42	7.4 de
Acala 4-42	4.30 e	Lankart 57	1.59 g	W. Stormproof	6.9 e
C.V.	5.8%	C.V.	5.5%	C.V.	10.8%

1960 PLAINS REGIONAL COTTON VARIETY TEST
Summary of Data

Brownfield, Texas														
Variety	:	:	Boll	:	:	Ginned Lint			:	:	:			
	:	Yield	:	Size	:	Lint	:	Seed	:	:	:			
	:	Lbs. Lint	:	No. Per	:	%	:	Index	:	U.H.M.	:			
	:	Per Acre	:	Pound	:	:	:	:	:	Mean	:			
										Uni-	Mi-			
										form-	cro-		T ₁	E ₁
										ity	naire			
Austin	1091	a	65	37.2	12.4	1.01	.83	82	4.34	1.56	7.9			
Lankart 57	979	b	56	39.7	14.5	.99	.81	82	4.88	1.46	10.0			
Lockett 88A	978	b	68	36.6	11.0	.87	.73	84	4.54	1.57	7.5			
Paymaster 101	967	bc	69	38.0	10.7	.84	.72	86	4.94	1.65	8.2			
Coker 100A	948	bcd	77	37.6	10.3	1.04	.85	82	4.16	1.64	7.7			
Deltapine 15	902	bcd	74	39.4	11.0	1.03	.86	83	4.20	1.77	8.8			
Gregg	874	cd	71	35.8	12.1	.94	.83	89	4.99	1.80	8.1			
Blightmaster	873	cd	72	35.8	11.8	.94	.76	81	4.61	1.57	8.8			
W. Stormproof	873	cd	66	38.5	12.0	.88	.74	84	4.19	1.58	6.9			
Paymaster 54B	853	de	62	38.8	11.2	.88	.76	86	4.56	1.56	9.3			
N. Star 4-11	774	ef	57	36.5	13.6	1.05	.88	84	3.79	1.72	8.0			
Acala 4-42	695	f	62	40.0	12.4	1.09	.89	82	3.68	2.16	7.2			

C.V. 7.4%

Lubbock, Texas										
Austin	889 a	67	39.0	13.3	1.08	.89	83	4.27	1.71	7.7
Deltapine 15	863 a	81	39.0	11.8	1.17	1.01	87	4.50	1.90	9.1
Lockett 88A	839 ab	75	37.9	11.2	1.01	.88	87	4.61	1.73	6.8
Lankart 57	810 abc	61	37.2	15.7	1.11	.98	89	5.16	1.59	9.9
Coker 100A	797 abc	85	39.0	12.0	1.18	1.00	85	4.56	1.85	7.8
Paymaster 54B	766 bc	66	38.3	12.9	.99	.86	88	4.32	1.66	9.5
Paymaster 101	761 bc	71	37.9	11.6	1.00	.87	87	4.59	1.68	7.9
Blightmaster	726 cd	80	38.6	11.7	1.12	.92	82	4.19	1.80	8.3
Gregg	720 cd	82	37.1	12.2	1.05	.90	86	4.35	2.01	8.0
W. Stormproof	716 cd	74	39.0	13.0	1.06	.90	85	4.10	1.63	7.3
Acala 4-42	664 de	66	37.3	13.3	1.17	1.03	89	4.26	2.28	8.2
N. Star 4-11	608 e	61	35.8	12.6	1.13	.98	87	4.16	1.78	8.8

C.V. 8.6%

Halfway, Texas										
Austin	638 a	67	39.6	13.1	1.08	.86	80	4.46	1.71	7.5
Paymaster 101	619 a	75	38.6	11.0	.99	.85	86	4.51	1.85	8.9
Lockett 88A	562 ab	71	37.3	12.4	.93	.81	87	5.19	1.71	8.8
Lankart 57	561 ab	54	40.4	15.9	1.09	.90	83	5.21	1.58	10.2
Blightmaster	555 ab	76	39.7	10.9	1.04	.84	81	4.20	1.75	8.6
N. Star 4-11	528 b	68	37.0	13.8	1.05	.85	81	4.37	1.92	9.0
Paymaster 54B	525 b	72	40.8	10.8	.98	.84	86	4.34	1.75	11.3
Coker 100A	502 bc	79	39.6	11.6	1.12	.93	83	4.92	1.86	9.2
Gregg	493 bcd	72	37.0	12.4	.98	.85	87	4.73	1.95	7.7
Deltapine 15	492 bcd	72	39.2	11.4	1.10	.91	82	4.84	1.80	9.8
Acala 4-42	429 cd	60	41.0	13.0	1.13	.97	86	4.67	2.21	8.3
W. Stormproof	418 d	75	41.0	11.8	1.03	.86	84	4.43	1.74	7.4

C.V. 11.2%

Spur, Texas										
Lockett 88A	338	70	39.8	10.3	.90	.79	88	4.93	1.67	8.0
W. Stormproof	333	61	41.2	10.6	.95	.81	86	4.44	1.62	7.1
Gregg	326	86	36.8	10.8	.89	.77	87	4.39	1.88	7.3
Coker 100A	307	74	38.4	10.2	1.02	.85	84	4.53	1.70	8.1
Lankart 57	291	61	41.0	11.7	.93	.81	88	5.00	1.56	9.7
Paymaster 54B	288	83	42.1	9.3	.80	.68	86	4.91	-	-
Paymaster 101	288	77	39.4	9.8	.86	.78	90	4.69	1.74	7.6
Austin	275	69	40.2	12.1	.96	.80	83	4.79	1.65	6.7
Blightmaster	260	72	38.5	11.3	1.01	.84	84	4.39	1.72	7.6
N. Star 4-11	254	62	37.6	12.4	1.03	.88	86	4.38	1.80	8.4
Deltapine 15	250	80	39.1	9.6	1.00	.86	86	4.43	1.77	8.6
Acala 4-42	242	69	41.8	11.9	1.00	.88	89	4.76	2.00	7.5

C.V. 16.4%

1960 PLAINS REGIONAL COTTON VARIETY TEST
Summary of Data

Chillicothe, Texas

Variety	Yield Lbs. Lint Per Acre	Boll Size No. Per Pound	Lint %	Seed Index	Ginned Lint			Mi- cro- naire	T ₁	E ₁
					U.H.M.	Mean	Uni- form- ity			
Lankart 57	910 a	57	40.7	-	1.00	.85	85	5.15	1.74	9.3
Paymaster 54B	884 ab	68	37.9	-	.97	.82	84	4.76	1.75	8.5
Paymaster 101	851 abc	72	37.8	-	.99	.83	85	4.83	1.85	7.8
Blightmaster	814 bcd	67	35.6	-	1.06	.85	81	4.23	1.89	7.6
W. Stormproof	801 cd	61	39.9	-	1.02	.85	83	4.59	1.74	6.8
Austin	780 cd	60	37.8	-	1.09	.91	84	4.39	1.82	7.1
Deltapine 15	758 d	72	39.4	-	1.12	.97	86	5.07	1.92	8.0
Lockett 88A	758 d	71	37.9	-	.94	.78	84	4.79	1.74	7.4
Gregg	751 d	70	33.8	-	1.02	.85	84	4.24	2.07	7.3
Coker 100A	643 e	70	35.3	-	1.16	.98	85	4.58	1.91	7.9
N. Star 4-11	570 f	57	35.3	-	1.10	.93	85	4.37	1.99	8.6
Acala 4-42	563 f	62	39.0	-	1.13	.96	85	4.73	2.40	7.8

C.V. 8.4%

Altus, Oklahoma

Lankart 57	1280 a	45	38.2	16.1	1.12	.97	87	4.89	1.44	11.8
Paymaster 101	1259 a	59	37.7	13.0	1.01	.87	87	4.54	1.76	9.8
N. Star 4-11	1122 b	54	37.7	13.7	1.05	.88	84	4.52	1.51	9.2
Paymaster 54B	1014 bc	62	38.5	12.1	.99	.84	85	4.10	1.74	9.4
Lockett 88A	1007 bc	66	37.7	12.5	1.00	.87	87	4.58	1.71	6.7
Austin	993 bc	59	37.3	13.8	1.12	.95	85	4.34	1.65	8.9
Blightmaster	985 c	59	36.1	13.1	1.01	.85	84	4.69	1.47	9.6
Deltapine 15	965 c	73	39.5	11.6	1.16	.98	84	4.41	1.87	8.5
Gregg	963 c	61	33.8	14.0	1.02	.86	84	4.49	1.83	9.0
W. Stormproof	941 c	54	38.9	13.3	1.07	.93	87	4.55	1.64	6.8
Coker 100A	910 c	75	36.8	11.2	1.19	1.01	85	4.39	1.90	7.6
Acala 4-42	879 c	54	38.4	14.3	1.12	1.00	89	4.22	2.11	7.3

C.V. 10.4%

Chickasha, Oklahoma

Austin	686 a	63	35.4	14.1	1.12	.97	87	4.39	1.83	5.9
Lankart 57	627 ab	64	37.3	14.7	1.07	.97	92	4.60	1.71	8.4
Paymaster 101	626 ab	72	37.0	11.6	1.01	.89	88	4.52	1.85	7.5
Paymaster 54B	584 bc	60	35.0	11.8	.97	.86	89	4.38	1.73	8.8
N. Star 4-11	566 bc	68	35.1	12.8	1.03	.90	88	4.29	1.78	6.5
Coker 100A	565 bc	79	33.9	12.1	1.15	.96	83	4.37	2.01	6.2
Gregg	565 bc	72	32.4	12.9	1.03	.93	90	4.23	2.34	5.9
Lockett 88A	565 bc	75	35.2	12.5	1.05	.94	90	4.47	1.86	6.7
Deltapine 15	551 c	79	36.4	11.7	1.15	1.01	88	4.54	1.99	7.1
W. Stormproof	548 c	67	36.5	12.2	1.05	.91	87	4.09	1.66	6.0
Blightmaster	531 c	73	33.3	12.4	1.10	.91	83	4.05	1.89	7.8
Acala 4-42	430 d	73	35.7	13.2	1.12	1.00	89	3.88	2.50	6.0

C.V. 8.4%

Nangum, Oklahoma

Paymaster 54B	567 a	59	37.9	15.0	1.11	.95	85	4.59	1.96	9.4
Deltapine 15	540 ab	70	39.2	13.4	1.13	.97	86	4.77	1.87	7.8
Coker 100A	529 ab	67	38.1	14.5	1.12	.93	84	4.34	1.78	7.3
Gregg	517 ab	68	37.6	14.2	1.04	.92	88	4.43	1.79	9.2
Austin	479 abc	67	39.6	14.0	1.09	.94	86	4.64	1.53	8.9
Lankart 57	466 abc	61	38.5	15.4	1.10	.93	85	4.40	1.63	9.7
Acala 4-42	446 abcd	59	37.9	14.7	1.09	.95	88	4.22	2.11	6.9
Paymaster 101	415 bcd	63	37.3	14.3	1.06	.89	84	4.86	1.68	9.7
Lockett 88A	400 bcd	66	39.6	14.1	1.07	.91	86	4.87	1.85	7.8
N. Star 4-11	363 cd	70	39.3	14.0	1.10	.96	88	4.51	1.61	9.1
Blightmaster	343 cd	65	37.2	14.7	1.12	.94	84	4.35	1.66	9.5
W. Stormproof	314 d	64	40.2	14.5	1.05	.89	85	4.39	1.72	7.0

C.V. 25.3%

1960 WESTERN REGIONAL COTTON VARIETY TEST

Regional Summary of Seven Locations

Varieties Combining Locations

Variety	Yield Lbs. Lint Per Acre	Boll Size: Grams Per Boll	Lint %	Seed Index	Ginned Lint			Micro- naire
					U.H.M.	Mean	Uni- form- ity	
Acala 4-42	1131	7.49	38.4	13.4	1.12	.97	87	4.30
Coker 100A	1079	5.69	36.0	11.2	1.11	.91	82	4.25
Deltapine 15	1045	5.67	37.9	10.6	1.10	.90	82	4.23
Lankart 57	835	7.88	38.1	14.5	1.02	.87	85	4.53

Yield Lbs. Lint Per Acre
.05 Level

Acala 4-42	1131 a
Coker 100A	1079 a
Deltapine 15	1045 a
Lankart 57	835 b
C.V.	10.5%

Boll Size, Grams Per Boll
.05 Level

Lankart 57	7.88 a
Acala 4-42	7.49 b
Coker 100A	5.69 c
Deltapine 15	5.67 c
C.V.	4.1%

Lint %
.05 Level

Acala 4-42	38.4 a
Lankart 57	38.1 a
Deltapine 15	37.9 a
Coker 100A	36.0 b
C.V.	1.2%

Seed Index

Lankart 57	14.5 a
Acala 4-42	13.4 b
Coker 100A	11.2 c
Deltapine 15	10.6 d
C.V.	3.5%

Ginned Lint
U.H.M.

Acala 4-42	1.12 a
Coker 100A	1.11 ab
Deltapine 15	1.10 b
Lankart 57	1.02 c
C.V.	1.7%

Ginned Lint
Mean

Acala 4-42	.97 a
Coker 100A	.91 b
Deltapine 15	.90 b
Lankart 57	.87 c
C.V.	3.0%

Ginned Lint
Uniformity

Acala 4-42	87 a
Lankart 57	85 b
Coker 100A	82 c
Deltapine 15	82 c
C.V.	2.4%

Micronaire

Lankart	4.53 a
Acala 4-42	4.30 ab
Coker 100A	4.25 b
Deltapine 15	4.23 b
C.V.	4.3%

T₀

Acala 4-42	3.98 a
Coker 100A	3.50 b
Deltapine 15	3.44 b
Lankart 57	3.13 c
C.V.	4.2%

1960 WESTERN REGIONAL COTTON VARIETY TEST

Regional Summary of Seven Locations

Varieties Combining Locations

Variety	T ₀	T ₁	E ₁	Drawing Sliver			A	D	22's
				U.H.M.	Mean	Uni-form-ity			
Acala 4-42	3.98	2.17	7.2	1.12	.93	83	465	30	137
Coker 100A	3.50	1.75	7.4	1.09	.85	79	472	30	114
Deltapine 15	3.44	1.75	8.0	1.07	.84	78	472	30	113
Lankart 57	3.13	1.56	9.1	1.01	.81	80	448	29	97

T ₁	
Acala 4-42	2.17 a
Coker 100A	1.75 b
Deltapine 15	1.75 b
Lankart 57	1.56 c
C.V.	8.5%

E ₁	
Lankart 57	9.1 a
Deltapine 15	8.0 b
Coker 100A	7.4 c
Acala 4-42	7.2 c
C.V.	5.1%

Drawing Sliver U.H.M.	
Acala 4-42	1.12 a
Coker 100A	1.09 b
Deltapine 15	1.07 b
Lankart 57	1.01 c
C.V.	2.2%

Drawing Sliver Mean	
Acala 4-42	.93 a
Coker 100A	.85 b
Deltapine 15	.84 b
Lankart 57	.81 c
C.V.	4.4%

Drawing Sliver Uniformity	
Acala 4-42	83 a
Lankart 57	80 b
Coker 100A	79 bc
Deltapine 15	78 c
C.V.	2.4%

A	
Deltapine 15	472 a
Coker 100A	472 a
Acala 4-42	465 ab
Lankart 57	448 b
C.V.	2.5%

D	
Acala 4-42	30
Coker 100A	30
Deltapine 15	30
Lankart 57	29
C.V.	N.S.

22's	
Acala 4-42	137 a
Coker 100A	114 b
Deltapine 15	113 b
Lankart 57	97 c
C.V.	3.7%

1960 WESTERN REGIONAL COTTON VARIETY TEST
Summary of Data

Shafter, California								
Variety	:	:	:	:	:	Ginned Lint		
	:	:	:	:	:	:	:	:
	Yield	Boll	Size	Lint	Seed	U.H.M.	Mean	Uni-
	Lbs. Lint	No. Per	%	%	Index			form-
	Per Acre	Pound						ity
Coker 100A	1248 a	77	36.7	12.4	1.13	.95	85	3.99
Acala 4-42	1220 ab	58	39.0	14.8	1.12	.98	88	4.30
Deltapine 15	1117 b	85	38.1	11.8	1.10	.94	86	4.02
Lankart 57	980 c	56	38.9	16.7	1.04	.90	87	4.78

Brawley, California								
Deltapine 15	1514 a	96	36.8	10.3	1.10	.89	81	4.83
Coker 100A	1351 b	100	33.3	10.9	1.09	.90	82	4.38
Acala 4-42	1234 bc	83	35.6	13.7	1.15	.99	86	4.39
Lankart 57	1190 c	73	37.1	13.0	.98	.81	82	4.48

Tempe, Arizona								
Acala 4-42	1455 a	64	37.4	13.4	1.08	.96	90	4.73
Deltapine 15	1347 b	83	37.8	10.4	1.08	.89	83	4.76
Coker 100A	1235 c	85	35.1	10.7	1.06	.87	82	4.67
Lankart 57	1095 d	60	37.7	14.1	.99	.86	87	4.97

Marana, Arizona								
Acala 4-42	519 a	63	38.2	12.8	1.11	.94	85	4.32
Deltapine 15	426 b	84	38.2	9.8	1.06	.84	79	3.82
Coker 100A	418 b	85	35.7	10.4	1.06	.85	80	4.16
Lankart 57	308 c	63	38.5	13.7	.98	.79	81	4.08

Artesia, New Mexico								
Coker 100A	1732	68	37.8	11.3	1.13	.95	85	4.40
Acala 4-42	1681	52	40.3	13.6	1.13	.99	88	4.04
Deltapine 15	1617	67	38.3	11.1	1.12	.94	84	4.17
Lankart 57	1480	47	37.5	15.6	1.08	.97	90	4.63
	N.S.							

Ysleta, Texas								
Acala 4-42	896 a	58	38.8	12.7	1.12	.96	86	4.19
Coker 100A	718 b	78	37.1	11.1	1.11	.91	82	4.18
Deltapine 15	630 b	77	38.1	10.1	1.11	.92	83	4.05
Lankart 57	348 c	60	38.5	13.5	1.03	.86	84	4.09

Pecos, Texas								
Acala 4-42	914 a	57	39.5	13.2	1.13	.98	87	4.12
Coker 100A	851 a	75	36.2	11.4	1.18	.96	82	4.02
Deltapine 15	665 b	76	38.2	11.0	1.15	.93	81	3.97
Lankart 57	446 c	53	38.7	14.9	1.09	.92	85	4.68

1960 WESTERN REGIONAL COTTON VARIETY TEST
Summary of Data

Variety	Shafter, California								
	T ₀	T ₁	E ₁	Drawing Sliver			A	D	22's
				U.H.M.	Mean	Uni-form-ity			
Coker 100A	3.55	1.67	7.6	1.10	.85	78	476	33	120
Acala 4-42	4.17	2.05	7.3	1.11	.89	80	447	22	144
Deltapine 15	3.54	1.69	8.0	1.08	.83	77	483	34	119
Lankart 57	3.18	1.51	9.1	1.03	.82	80	426	24	98

Brawley, California									
Deltapine 15	4.05	1.79	6.8	1.07	.85	80	430	18	122
Coker 100A	4.12	1.86	6.7	1.06	.82	77	467	24	120
Acala 4-42	4.61	2.26	6.5	1.13	.93	82	462	31	146
Lankart 57	3.86	1.75	7.8	.94	.76	81	459	32	112

Tempe, Arizona									
Acala 4-42	4.14	2.24	5.7	1.08	.86	80	441	23	133
Deltapine 15	3.60	1.95	6.5	1.06	.81	77	436	20	109
Coker 100A	3.68	1.92	6.1	1.04	.79	76	439	22	117
Lankart 57	3.29	1.76	7.7	.98	.78	80	418	19	100

Marana, Arizona									
Acala 4-42	4.01	2.23	6.7	1.12	.94	84	465	25	140
Deltapine 15	3.40	1.75	8.1	1.01	.75	75	514	34	110
Coker 100A	3.39	1.82	6.8	1.05	.83	79	489	28	112
Lankart 57	3.16	1.53	9.4	.97	.75	78	469	27	94

Artesia, New Mexico									
Coker 100A	3.23	1.70	8.2	1.12	.89	79	464	31	104
Acala 4-42	3.48	2.02	8.2	1.15	.93	81	489	38	125
Deltapine 15	2.96	1.74	9.1	1.11	.86	78	484	40	108
Lankart 57	2.65	1.48	10.2	1.10	.89	82	450	36	90

Ysleta, Texas									
Acala 4-42	3.93	2.46	7.7	1.11	.93	84	460	32	135
Coker 100A	3.45	1.69	7.7	1.09	.89	82	478	31	113
Deltapine 15	3.45	1.71	8.4	1.08	.88	82	483	29	111
Lankart 57	3.01	1.49	9.5	1.02	.83	81	461	35	90

Pecos, Texas									
Acala 4-42	3.56	1.93	8.8	1.16	1.01	87	493	40	136
Coker 100A	3.11	1.63	8.8	1.16	.92	80	497	40	111
Deltapine 15	3.07	1.64	9.2	1.12	.89	79	478	34	115
Lankart 57	2.79	1.44	10.3	1.07	.87	81	457	33	97

1960 WESTERN COTTON VARIETY TEST
Regional Summary of Eight Locations

Varieties Combining Locations

Variety	Yield Lbs. Lint Per Acre	Boll Size Grams Per Boll	Lint %	Seed Index	Ginned Lint			Micro- naire
					U.H.M.	Mean	Uni- form- ity	
Wescot	1109	7.72	37.6	11.3	1.08	.88	82	4.21
Acala 4-42	1085	7.47	38.4	13.4	1.10	.93	85	4.16
AXTE 25	1040	5.92	37.3	12.4	1.08	.92	85	4.22
Cal 7-5	1010	6.76	37.4	14.8	1.12	.93	83	4.46
Acala 1517 BR-1	1008	6.66	36.1	13.0	1.13	.93	82	3.97
Acala 44-10	1005	7.36	37.2	14.2	1.12	.93	83	4.14
Acala 1517D	1001	6.49	34.4	14.1	1.21	1.04	86	4.22
Acala 44 WR	968	7.03	35.5	13.7	1.12	.95	85	4.20
AXTE 30	956	6.63	35.7	14.3	1.14	.96	84	4.47
Acala 227	952	6.42	37.0	13.7	1.12	.97	87	4.30

Locations Combining 10 Varieties

Location	Yield Lbs. Lint Per Acre	Boll Size No. Per Pound	Lint %	Seed Index	Ginned Lint			Micro- naire
					U.H.M.	Mean	Uni- form- ity	
Shafter, Calif.	1240	68	37.7	14.3	1.15	.97	84	4.14
Brawley, Calif.	1488	79	36.4	13.0	1.13	.95	84	4.28
Yuma, Ariz.	969	81	34.1	13.1	1.02	.84	82	3.71
Tempe, Ariz.	1216	75	36.2	13.7	1.12	.97	87	4.74
Marana, Ariz.	958	65	36.3	13.4	1.12	.94	84	4.07
Univ. Park, N. M.	807	63	37.7	13.4	1.11	.94	84	4.25
Ysleta, Tex.	888	69	37.7	13.4	1.14	.96	84	4.30
Pecos, Tex.	745	71	37.2	13.8	1.17	1.00	85	4.41

Yield Lbs. Lint Per Acre .05 Level		Boll Size, Grams Per Boll .05 Level		Lint % .05 Level	
Wescot	1109 a	Acala 4-42	7.47 a	Acala 4-42	38.4 a
Acala 4-42	1085 a	Acala 44-10	7.36 a	Wescot	37.6 ab
AXTE 25	1040 ab	Acala 44 WR	7.03 b	Cal 7-5	37.4 b
Cal 7-5	1010 ab	Cal 7-5	6.76 c	AXTE 25	37.3 b
Acala 1517 BR-1	1008 ab	Acala 1517 BR-1	6.66 cd	Acala 44-10	37.2 b
Acala 44-10	1005 ab	AXTE 30	6.63 cd	Acala 227	37.0 b
Acala 1517D	1001 ab	Acala 1517D	6.49 d	Acala 1517 BR-1	36.1 c
Acala 44 WR	968 b	Acala 227	6.42 d	AXTE 30	35.7 c
AXTE 30	956 b	AXTE 25	5.92 e	Acala 44 WR	35.5 c
Acala 227	952 b	Wescot	5.72 e	Acala 1517D	34.4 d
C.V.	9.4%	C.V.	2.8%	C.V.	2.8%

1960 WESTERN COTTON VARIETY TEST
Regional Summary of Eight Locations

Varieties Combining Locations

Variety	T ₀	T ₁	E ₁	Drawing Sliver			A	D	22's
				U.H.M.	Mean	Uni-form-ity			
Wescot	3.87	1.88	7.1	1.06	.83	78	476	32	120
Acala 4-42	4.11	2.23	7.2	1.10	.89	81	480	38	139
AXTE 25	3.99	2.06	7.2	1.09	.88	81	472	36	133
Cal 7-5	4.53	2.26	6.1	1.10	.88	80	456	27	142
Acala 1517 BR-1	4.46	2.10	5.9	1.11	.88	79	485	38	141
Acala 44-10	3.88	2.00	7.0	1.10	.87	79	477	35	128
Acala 1517D	4.38	2.30	7.6	1.21	1.00	83	473	27	156
Acala 44 WR	3.93	2.03	7.5	1.11	.90	81	474	37	134
AXTE 30	4.08	2.07	6.7	1.14	.92	81	458	28	137
Acala 227	4.35	2.16	6.2	1.12	.91	82	464	32	146

Locations Combining 10 Varieties

Location	T ₀	T ₁	E ₁	Drawing Sliver			A	D	22's
				U.H.M.	Mean	Uni-form-ity			
Shafter, Calif.	4.09	2.06	6.8	1.14	.93	82	465	33	136
Brawley, Calif.	4.67	2.35	5.7	1.10	.89	81	466	28	150
Yuma, Ariz.	4.74	2.37	5.5	1.03	.80	78	516	42	143
Tempe, Ariz.	4.40	2.20	6.5	1.13	.91	81	445	25	143
Marana, Ariz.	3.94	2.03	7.5	1.13	.90	79	489	37	140
Univ. Park, N. M.	3.96	1.95	6.8	1.10	.88	80	468	33	127
Ysleta, Tex.	3.90	2.02	7.2	1.13	.93	82	457	31	132
Pecos, Tex.	3.59	1.88	8.7	1.16	.95	82	468	36	131

Seed Index		Ginned Lint U.H.M.		Ginned Lint Mean	
Cal 7-5	14.8	Acala 1517D	1.21 a	Acala 1517D	1.04 a
AXTE 30	14.3	AXTE 30	1.14 b	Acala 227	.97 b
Acala 44-10	14.2	Acala 1517 BR-1	1.13 bc	AXTE 30	.96 b
Acala 1517D	14.1	Cal 7-5	1.12 c	Acala 44 WR	.95 bc
Acala 44 WR	13.7	Acala 44-10	1.12 c	Acala 4-42	.93 cd
Acala 227	13.7	Acala 44 WR	1.12 c	Cal 7-5	.93 cd
Acala 4-42	13.4	Acala 227	1.12 c	Acala 1517 BR-1	.93 cd
Acala 1517 BR-1	13.0	Acala 4-42	1.10 d	Acala 44-10	.93 cd
AXTE 25	12.4	Wescot	1.08 e	AXTE 25	.92 d
Wescot	11.3	AXTE 25	1.08 e	Wescot	.88 e
Not Analyzed					
		C.V.	2.2%	C.V.	3.8%

1960 WESTERN COTTON VARIETY TEST
Regional Summary of Eight Locations

Ginned Lint Uniformity	
Acala 227	87 a
Acala 1517D	86 ab
Acala 4-42	85 bc
AXTE 25	85 bc
Acala 44 WR	85 bc
AXTE 30	84 cd
Acala 44-10	83 de
Cal 7-5	83 de
Acala 1517 BR-1	82 e
Wescot	82 e
C.V.	2.3%

Micronaire	
AXTE 30	4.47 a
Cal 7-5	4.46 a
Acala 227	4.30 ab
AXTE 25	4.22 bc
Acala 1517D	4.22 bc
Wescot	4.21 bc
Acala 44 WR	4.20 bc
Acala 4-42	4.16 bc
Acala 44-10	4.14 bc
Acala 1517 BR-1	3.97 c
C.V.	4.4%

T ₀	
Cal 7-5	4.53 a
Acala 1517 BR-1	4.46 ab
Acala 1517D	4.38 bc
Acala 227	4.35 c
Acala 4-42	4.11 d
AXTE 30	4.08 de
AXTE 25	3.99 ef
Acala 44 WR	3.93 fg
Acala 44-10	3.88 g
Wescot	3.87 g
C.V.	4.1%

T ₁	
Acala 1517D	2.30 a
Cal 7-5	2.26 ab
Acala 4-42	2.23 b
Acala 227	2.16 c
Acala 1517 BR-1	2.10 cd
AXTE 30	2.07 de
AXTE 25	2.06 de
Acala 44 WR	2.03 de
Acala 44-10	2.00 e
Wescot	1.88 f
C.V.	4.3%

E ₁	
Acala 1517D	7.6 a
Acala 44 WR	7.5 ab
Acala 4-42	7.2 bc
AXTE 25	7.2 bc
Wescot	7.1 c
Acala 44-10	7.0 cd
AXTE 30	6.7 d
Acala 227	6.2 e
Cal 7-5	6.1 e
Acala 1517 BR-1	5.9 e
C.V.	6.0%

Drawing Sliver U.H.M.	
Acala 1517D	1.21 a
AXTE 30	1.14 b
Acala 227	1.12 c
Acala 1517 BR-1	1.11 cd
Acala 44 WR	1.11 cd
Acala 4-42	1.10 de
Cal 7-5	1.10 de
Acala 44-10	1.10 de
AXTE 25	1.09 e
Wescot	1.06 f
C.V.	1.9%

1960 WESTERN COTTON VARIETY TEST
Regional Summary of Eight Locations

Drawing Sliver Mean		Drawing Sliver Uniformity	
Acala 1517D	1.00 a	Acala 1517D	83 a
AXTE 30	.92 b	Acala 227	82 ab
Acala 227	.91 bc	Acala 4-42	81 bc
Acala 44 WR	.90 bcd	AXTE 25	81 bc
Acala 4-42	.89 cde	Acala 44 WR	81 bc
AXTE 25	.88 de	AXTE 30	81 bc
Cal 7-5	.88 de	Cal 7-5	80 cd
Acala 1517 BR-1	.88 de	Acala 1517 BR-1	79 de
Acala 44-10	.87 e	Acala 44-10	79 de
Wescot	.83 f	Wescot	78 e
C.V.	3.7%	C.V.	2.2%

A	
Acala 1517 BR-1	485 a
Acala 4-42	480 ab
Acala 44-10	477 ab
Wescot	476 ab
Acala 44 WR	474 abc
Acala 1517D	473 abcd
AXTE 25	472 abcd
Acala 227	464 bcd
AXTE 30	458 cd
Cal 7-5	456 d
C.V.	3.0%

D		22's	
Acala 4-42	38 a	Acala 1517D	156 a
Acala 1517BR-1	38 a	Acala 227	146 b
Acala 44 WR	37 ab	Cal 7-5	142 bc
AXTE 25	36 ab	Acala 1517BR-1	141 cd
Acala 44-10	35 ab	Acala 4-42	139 cd
Wescot	32 bc	AXTE 30	137 de
Acala 227	32 bc	Acala 44 WR	134 e
AXTE 30	28 c	AXTE 25	133 e
Cal 7-5	27 c	Acala 44-10	128 f
Acala 1517D	27 c	Wescot	120 g
C.V.	14.0%	C.V.	3.8%

1960 WESTERN COTTON VARIETY TEST
Summary of Data

Variety	Yield Lbs. Lint Per Acre	Boll Size No. Per Pound	Lint %	Seed Index	Ginned Lint			
					U.H.M.	Mean	Uni- form- ity	Micro- naire

Shafter, California

Cal 25	1465 a	73	39.1	13.3	1.12	.96	86	4.25
Cal 7-5	1407 a	63	38.8	16.1	1.14	.96	84	4.71
Acala 4-42	1250 b	57	39.2	13.7	1.11	.94	84	4.28
Cal 30	1232 b	67	37.6	15.1	1.16	1.00	86	4.37
Acala 227	1217 b	70	37.4	13.9	1.16	1.01	87	3.82
Acala 44 WR	1189 b	61	36.4	15.1	1.15	.97	85	4.14
Acala 1517D	1175 b	71	35.3	15.3	1.24	1.06	85	4.19
Acala 1517 BR-1	1166 b	70	37.8	13.8	1.19	.98	83	3.88
Acala 44-10	1157 b	59	37.3	14.7	1.13	.91	81	3.95
Wescot	1141 b	87	38.4	11.6	1.10	.89	81	3.83

C.V. 8.9%

Brawley, California

Wescot	1600 a	94	37.2	10.7	1.07	.89	83	4.52
Acala 4-42	1599 a	72	38.6	13.4	1.13	.98	87	4.18
Acala 44-10	1553 ab	72	37.3	13.7	1.12	.93	83	4.41
Acala 227	1540 ab	77	38.2	13.3	1.15	1.00	87	4.66
Cal 7-5	1517 ab	80	37.2	13.9	1.15	.97	84	4.34
Acala 1517 BR-1	1456 bc	78	35.0	13.0	1.13	.92	81	3.99
Acala 44 WR	1455 bc	72	35.4	13.1	1.16	.98	84	4.14
Cal 25	1430 bc	86	36.0	11.9	1.04	.86	83	3.88
Cal 30	1366 c	78	35.1	13.8	1.15	.96	84	4.40
Acala 1517D	1364 c	83	34.0	13.6	1.24	1.06	86	4.30

C.V. 6.6 %

Yuma, Arizona

Acala 4-42	1121 a	73	36.5	13.3	.99	.77	78	3.47
Wescot	1072 a	87	34.0	11.5	.96	.73	76	3.58
Acala 227	1043 a	78	35.2	13.7	1.04	.90	87	4.49
Acala 44-10	1022 ab	72	35.8	13.9	1.03	.86	83	3.89
Cal 25	1004 ab	95	32.4	12.0	.99	.85	86	3.18
Cal 7-5	1004 ab	81	36.2	13.6	.99	.81	82	3.92
Acala 44 WR	899 bc	78	34.4	13.1	1.04	.85	82	3.66
Cal 30	899 bc	83	33.4	13.1	1.03	.83	81	3.72
Acala 1517 BR-1	837 c	79	31.4	13.4	1.05	.82	79	3.42
Acala 1517D	790 c	84	31.9	13.4	1.14	.97	85	3.79

C.V. 10.6%

Tempe, Arizona

Wescot	1397 a	88	37.6	11.3	1.07	.90	84	4.85
Acala 227	1363 ab	75	37.4	13.9	1.11	.98	89	5.07
Acala 4-42	1286 bc	66	38.6	13.6	1.09	.95	87	4.53
Acala 44-10	1274 bc	69	37.4	14.2	1.11	.96	87	4.77
Cal 25	1227 cd	84	36.7	12.5	1.09	.95	87	4.65
Cal 7-5	1207 cde	72	37.3	14.8	1.10	.93	84	4.93
Acala 44 WR	1140 def	69	34.9	13.6	1.11	.97	88	4.74
Acala 1517D	1130 def	77	33.3	14.9	1.23	1.09	89	4.54
Cal 30	1100 ef	75	34.9	14.6	1.17	1.00	86	4.83
Acala 1517 BR-1	1039 f	76	34.1	13.4	1.14	.97	86	4.47

C.V. 7.5%

1960 WESTERN COTTON VARIETY TEST
Summary of Data

Variety	To	Tl	El	Drawing Sliver			A	D	22's
				U.H.M.	Mean	Uni-form-ity			

Shafter, California

Cal 25	4.10	1.98	7.2	1.12	.93	83	445	33	133
Cal 7-5	4.43	2.25	5.6	1.13	.91	81	435	25	144
Acala 4-42	4.12	2.19	6.3	1.11	.92	83	463	39	135
Cal 30	4.06	2.05	7.1	1.15	.91	79	448	27	134
Acala 227	4.15	2.07	7.0	1.16	.98	85	491	44	152
Acala 44 WR	3.83	1.97	7.3	1.14	.94	82	465	32	127
Acala 1517D	4.35	2.17	7.6	1.22	1.03	85	458	27	146
Acala 1517 BR-1	4.34	2.00	6.4	1.14	.93	82	466	37	134
Acala 44-10	3.79	2.07	6.4	1.13	.92	81	488	38	130
Wescot	3.71	1.85	7.2	1.09	.87	79	491	33	123

Brawley, California

Wescot	4.40	2.18	5.8	1.03	.79	77	465	25	122
Acala 4-42	4.74	2.62	5.8	1.11	.92	83	476	29	160
Acala 44-10	4.31	2.21	6.2	1.10	.87	80	450	30	143
Acala 227	4.88	2.34	4.5	1.12	.90	81	440	23	160
Cal 7-5	4.96	2.46	5.3	1.08	.86	80	472	28	159
Acala 1517 BR-1	5.12	2.40	4.5	1.10	.89	81	481	29	146
Acala 44 WR	4.38	2.20	6.3	1.10	.89	81	462	31	148
Cal 25	4.36	2.33	6.4	1.07	.85	80	495	39	143
Cal 30	4.49	2.31	5.8	1.12	.90	81	453	27	154
Acala 1517D	5.05	2.47	7.0	1.22	1.03	85	469	22	171

Yuma, Arizona

Acala 4-42	4.81	2.54	5.9	1.02	.79	77	534	54	144
Wescot	4.45	2.05	5.8	.96	.73	76	531	43	125
Acala 227	4.84	2.43	4.6	1.05	.84	80	451	23	145
Acala 44-10	4.52	2.12	6.0	1.01	.79	78	510	38	126
Cal 25	4.57	2.37	6.0	.99	.78	79	535	60	145
Cal 7-5	5.08	2.52	4.5	.97	.75	77	497	30	136
Acala 44 WR	4.53	2.28	6.0	1.04	.81	78	518	47	148
Cal 30	4.54	2.35	5.4	1.05	.81	78	529	40	148
Acala 1517 BR-1	4.99	2.34	4.7	1.04	.79	76	547	51	147
Acala 1517D	5.05	2.76	6.2	1.15	.91	79	514	32	172

Tempe, Arizona

Wescot	4.09	1.92	6.9	1.07	.83	78	432	21	120
Acala 227	4.66	2.21	5.9	1.12	.92	82	480	19	145
Acala 4-42	4.36	2.23	6.7	1.09	.87	80	450	34	145
Acala 44-10	4.12	2.03	6.9	1.12	.89	80	450	30	133
Cal 25	4.17	2.15	7.0	1.10	.89	82	452	30	139
Cal 7-5	4.95	2.46	5.8	1.11	.87	79	436	22	154
Acala 44 WR	4.34	2.15	7.4	1.13	.93	82	445	28	139
Acala 1517D	4.55	2.39	7.7	1.24	1.06	86	459	21	166
Cal 30	4.35	2.30	5.1	1.17	.95	81	445	23	142
Acala 1517 BR-1	4.42	2.22	5.5	1.13	.89	79	463	28	145

1960 WESTERN COTTON VARIETY TEST
Summary of Data

	:	:	Boll	:	:	Ginned Lint			:
	:	Yield	:	Size	:	Lint	:	Seed	:
	:	Lbs. Lint	:	No. Per	:	%	:	Index	:
Variety	:	Per Acre	:	Pound	:	:	:	U.H.M.	:
	:		:		:		:	Mean	:
	:		:		:		:	Uni-	:
	:		:		:		:	form-	:
	:		:		:		:	ity	:
	:		:		:		:	Micro-	:
	:		:		:		:	naire	:

Marana, Arizona

Wescot	1195 a	73	37.8	11.4	1.07	.84	79	4.19
Acala 1517 BR-1	1067 b	65	36.3	12.9	1.11	.88	80	3.84
Acala 4-42	1043 bc	57	38.2	13.3	1.11	.96	87	4.37
Acala 1517D	987 bcd	64	34.3	14.2	1.19	1.01	86	4.12
Cal 30	960 cd	63	34.9	14.6	1.18	.99	84	4.42
Acala 44 WR	959 cd	61	34.9	13.7	1.16	1.02	88	4.16
Acala 44-10	957 cd	55	36.8	14.4	1.13	.92	82	3.78
Cal 25	901 d	72	37.6	11.9	1.10	.94	86	4.08
Cal 7-5	886 d	64	36.4	14.9	1.10	.92	84	4.12
Acala 227	621 e	71	35.7	13.1	1.10	.93	85	3.60

C.V. 8.6%

University Park, New Mexico

Acala 1517 BR-1	890 a	59	38.3	12.7	1.12	.92	82	3.93
Wescot	871 ab	71	38.3	11.8	1.07	.87	82	4.16
Cal 25	856 ab	73	39.6	11.7	1.08	.92	86	4.54
Acala 1517D	835 ab	61	35.9	14.1	1.17	1.01	86	4.49
Acala 4-42	825 ab	56	38.5	13.4	1.09	.92	85	4.05
Acala 44 WR	811 ab	59	36.1	13.7	1.09	.93	86	4.12
Cal 7-5	811 ab	62	38.0	14.5	1.14	.95	83	4.37
Cal 30	771 ab	62	37.2	14.2	1.13	.96	85	4.61
Acala 44-10	759 b	59	37.8	14.4	1.14	.97	85	4.04
Acala 227	644 c	64	37.7	13.8	1.12	.96	86	4.19

C.V. 12.4%

Ysleta, Texas

Wescot	929 a	73	39.5	10.9	1.12	.94	84	4.38
Acala 1517D	900 a	63	35.6	13.9	1.25	1.07	85	4.22
Cal 25	857 ab	68	38.9	12.8	1.14	.96	84	4.65
Acala 4-42	851 ab	56	39.0	13.4	1.11	.92	83	4.08
Acala 1517 BR-1	788 bc	61	37.7	12.4	1.15	.95	83	4.02
Cal 30	769 bc	63	36.6	14.4	1.14	.97	85	4.80
Acala 44-10	756 bc	59	37.9	13.7	1.13	.93	82	3.89
Acala 44 WR	732 c	61	36.3	13.4	1.12	.93	84	4.19
Cal 7-5	717 c	59	38.0	15.3	1.14	.96	84	4.70
Acala 227	714 c	66	37.3	13.5	1.15	.98	85	4.12

C.V. 9.3%

Pecos, Texas

Acala 1517D	853 a	68	35.5	13.9	1.25	1.08	86	4.14
Acala 1517 BR-1	841 ab	65	38.5	12.5	1.20	1.01	84	4.22
Acala 4-42	748 bc	58	38.3	13.4	1.16	1.01	87	4.37
Wescot	705 cd	72	37.9	11.5	1.16	.99	85	4.23
Cal 25	610 de	70	38.3	12.9	1.13	.96	86	4.57
Acala 44-10	602 e	56	37.4	14.6	1.16	.98	85	4.42
Acala 44 WR	594 e	61	35.9	14.2	1.18	1.00	85	4.45
Cal 30	584 e	64	36.1	14.8	1.16	.96	83	4.63
Cal 7-5	565 e	64	37.4	15.7	1.19	.98	82	4.61
Acala 227	528 e	69	36.9	14.4	1.17	1.03	88	4.52

C.V. 12.2%

1960 WESTERN COTTON VARIETY TEST
Summary of Data

Variety	T ₀	T ₁	E ₁	Drawing Sliver			A	D	22's
				U.H.M.	Mean	Uni- form- ity			

Marana, Arizona

Wescot	3.82	1.81	8.0	1.08	.85	78	481	31	124
Acala 1517 BR-1	4.33	1.88	6.8	1.11	.87	78	495	43	148
Acala 4-42	3.67	2.14	8.0	1.13	.91	81	482	34	137
Acala 1517D	4.11	2.31	7.5	1.20	.95	79	486	27	152
Cal 30	3.81	1.95	7.9	1.18	.97	82	458	30	137
Acala 44 WR	3.62	1.98	8.6	1.15	.92	80	487	49	134
Acala 44-10	3.55	1.95	7.7	1.10	.87	79	511	40	131
Cal 25	3.82	1.93	8.0	1.11	.89	81	485	38	133
Cal 7-5	4.48	2.25	6.5	1.10	.87	79	486	33	152
Acala 227	4.23	2.10	6.7	1.12	.90	81	519	46	152

University Park, New Mexico

Acala 1517 BR-1	4.31	1.96	5.8	1.10	.88	80	480	34	131
Wescot	3.58	1.67	7.6	1.08	.87	81	478	37	109
Cal 25	3.78	1.89	7.0	1.09	.89	82	457	32	120
Acala 1517D	4.15	2.17	7.0	1.15	.90	78	453	27	145
Acala 4-42	3.95	2.10	7.3	1.11	.91	82	479	41	132
Acala 44 WR	3.77	1.91	7.5	1.08	.86	80	475	35	126
Cal 7-5	4.24	2.06	6.0	1.11	.87	78	459	31	129
Cal 30	3.88	1.86	6.9	1.12	.87	78	445	26	126
Acala 44-10	3.76	1.86	6.9	1.08	.84	78	484	36	119
Acala 227	4.19	2.04	6.1	1.10	.90	82	469	32	132

Ysleta, Texas

Wescot	3.62	1.84	7.1	1.10	.89	81	454	29	120
Acala 1517D	4.04	2.10	8.8	1.23	1.04	85	462	27	148
Cal 25	3.77	1.99	7.6	1.13	.94	83	445	27	129
Acala 4-42	3.80	2.12	7.9	1.12	.94	84	480	35	130
Acala 1517 BR-1	4.22	2.08	5.9	1.12	.90	80	473	42	135
Cal 30	3.92	2.01	6.6	1.15	.94	82	439	25	131
Acala 44-10	3.66	1.91	7.7	1.12	.91	81	467	37	126
Acala 44 WR	3.71	2.01	7.6	1.13	.95	84	468	36	128
Cal 7-5	4.15	2.11	6.7	1.13	.91	80	426	22	134
Acala 227	4.19	2.08	6.7	1.13	.93	82	460	31	139

Pecos, Texas

Acala 1517D	3.77	2.07	9.3	1.26	1.10	88	486	36	150
Acala 1517 BR-1	4.00	1.93	7.5	1.14	.92	81	480	42	141
Acala 4-42	3.48	1.94	9.9	1.13	.90	80	482	40	131
Wescot	3.28	1.70	8.5	1.11	.85	76	480	40	119
Cal 25	3.35	1.85	9.0	1.12	.91	82	466	34	124
Acala 44-10	3.33	1.85	8.4	1.13	.92	81	461	36	120
Acala 44 WR	3.31	1.75	9.8	1.16	.96	83	476	43	123
Cal 30	3.63	1.78	8.7	1.19	1.00	85	445	31	128
Cal 7-5	3.99	1.97	8.1	1.19	1.00	84	441	30	133
Acala 227	3.78	2.02	8.2	1.16	.97	84	463	35	141

